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U.S. PATENT APPLICATION

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Invention: CRYSTAL STRUCTURE

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SPECIFICATION

CRYSTAL STRUCTURE

Field of the Invention

The present invention relates to the enzyme ketopantoate hydroxymethyltransferase (KPHMT), and in particular its crystal structure and the use of this structure in drug discovery.

Background of the Invention

Pantothenic acid (vitamin B₅) is found in coenzyme A (CoA) and the acyl carrier protein (ACP), both of which are involved in fatty acid metabolism.

Pantothenic acid can be synthesised by plants and microorganisms but animals are apparently unable to make the vitamin, and require it in their diet. However, all organisms are able to convert pantothenic acid to its metabolically active form, coenzyme A.

The pathway for the synthesis of pantothenic acid is shown in Figure 1. It provides a potential target for the treatment of infectious disease, since inhibitors of the pathway should be damaging to bacteria and fungi but not to human or animal subjects infected by such microorganisms.

Of specific interest is ketopantoate hydroxymethyltransferase (KPHMT; 5,10-methylenetetrahydrofolate: α -ketoisovalerate hydroxymethyl transferase, EC 2.1.2.11). Powers et al. (1) showed that KPHMT is a class II aldolase that utilizes 5,10-CH₂-H₄folate (mTHF) to transfer a hydroxymethyl group to α -ketoisovalerate (α -KIVA) and thereby form ketopantoate, as shown in Figure 2. This is the first step in pantothenic acid biosynthesis. Inhibitors (whether competitive, non-competitive, uncompetitive or irreversible) of KPHMT would be of significant technical and commercial interest.

KPHMT from *Escherichia coli* has been cloned and over-expressed in *E. coli*, and was the first sequence of a pantothenate enzyme to be determined (2). The recombinant protein has 264 amino acids, corresponding to a molecular weight

of 28,237 Da. The oligomeric state of the enzyme appears to be organism specific. The homologue from the lower eukaryote, *Aspergillus nidulans*, has been expressed in an active form in *E. coli* and shown to be an octamer by gel filtration chromatography (3). However, the *E. coli* enzyme, was found to be a decamer by sedimentation equilibrium experiments, gel filtration chromatography and polyacrylamide gel electrophoresis under native conditions (1).

Very little is known about the mode of action of KPHMT, except that the addition of the hydroxymethyl group proceeds with retention of configuration (4). Mg^{2+} is essential for activity, whilst metal reconstitution experiments with Mn^{2+} , Co^{3+} and Zn^{2+} give enzyme with progressively less activity (1). To date, five ketopantoate auxotrophs, from *E. coli*, *A. nidulans*, *Datura innoxia* and two from *Salmonella typhimurium*, have been identified (5)(6). Four of these (from *E. coli*, *A. nidulans*, and the two from *Salmonella typhimurium*) have been shown to have defects in the *panB* gene which encodes KPHMT. The fifth (from the plant, *D. innoxia*) is suspected to have a *panB* defect (6). The *A. nidulans* auxotroph is caused by a deletion of Gly 168 (corresponding to Gly 205 in *E. coli*).

Until now no one has successfully determined the structure of KPHMT. This has prevented KPHMT inhibitors being developed via structure-based drug design methodologies. Therefore, knowledge of the structure of KPHMT would significantly assist the rational design of novel therapeutics based on KPHMT inhibitors.

Definitions

In the following by "binding site" we mean a site (such as an atom, a functional group of an amino acid residue or a plurality of such atoms and/or groups) in a KPHMT binding cavity which may bind to an agent compound such as a candidate inhibitor. Depending on the particular molecule in the cavity,

sites may exhibit attractive or repulsive binding interactions, brought about by charge, steric considerations and the like.

By "fitting", is meant determining by automatic, or semi-automatic means, interactions between one or more atoms of an agent molecule and one or more atoms or binding sites of the KPMT, and calculating the extent to which such interactions are stable. Various computer-based methods for fitting are described further herein.

By "root mean square deviation" we mean the square root of the arithmetic mean of the squares of the deviations from the mean.

By a "computer system" we mean the hardware means, software means and data storage means used to analyse atomic coordinate data. The minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means and data storage means. Desirably a monitor is provided to visualise structure data. The data storage means may be RAM or means for accessing computer readable media of the invention. Examples of such systems are microcomputer workstations available from Silicon Graphics Incorporated and Sun Microsystems running Unix based, Windows NT or IBM OS/2 operating systems.

By "computer readable media" we mean any media which can be read and accessed directly by a computer e.g. so that the media is suitable for use in the above-mentioned computer system. Such media include, but are not limited to: magnetic storage media such as floppy discs, hard disc storage medium and magnetic tape; optical storage media such as optical discs or CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media.

Summary of the Invention

The present invention is at least partly based on overcoming several technical hurdles: we have (i) produced KPMT

crystals of suitable quality, including crystals of selenium atom KPHMT derivatives, for performing X-ray diffraction analyses, (ii) collected X-ray diffraction data from the crystals, (iii) determined the three-dimensional structure of KPHMT, and (iv) identified binding sites on the enzyme which are likely to be involved in the enzymatic reaction.

In general aspects, the present invention is concerned with identifying or obtaining agent compounds (especially inhibitors of KPHMT) for modulating KPHMT activity, and in preferred embodiments identifying or obtaining actual agent compounds/inhibitors. Crystal structure information presented herein is useful in designing potential inhibitors and modelling them or their potential interaction with the KPHMT binding cavity. Potential inhibitors may be brought into contact with KPHMT to test for ability to interact with the KPHMT binding cavity. Actual inhibitors may be identified from among potential inhibitors synthesized following design and model work performed *in silico*. An inhibitor identified using the present invention may be formulated into a composition, for instance a composition comprising a pharmaceutically acceptable excipient, and may be used in the manufacture of a medicament for use in a method of treatment. These and other aspects and embodiments of the present invention are discussed below.

In a first aspect, the present invention provides a crystal of KPHMT having a monoclinic space group $P2_1$, and unit cell dimensions of $a = 86.1 \text{ \AA}$, $b = 157.2 \text{ \AA}$, $c = 100.2 \text{ \AA}$ and $\beta = 97.4^\circ$, or more generally $a = 86.1 \pm 0.2 \text{ \AA}$, $b = 157.2 \pm 0.2 \text{ \AA}$, $c = 100.2 \pm 0.2 \text{ \AA}$ and $\beta = 97.4 \pm 0.2^\circ$.

We have found that the asymmetric unit of such a crystal corresponds to a KPHMT decamer which may be thought of as a pentamer of KPHMT dimers, the dimers being related by a non-crystallographic five-fold axis.

Alternatively, or additionally, the crystal may have the three dimensional atomic coordinates of Table 1. An

advantageous feature of the structural data according to Table 1 are that they have a high resolution of about 1.8 Å.

The coordinates of Table 1 provide a measure of atomic location in Angstroms, to a first decimal place. The coordinates are a relative set of positions that define a shape in three dimensions, so it is possible that an entirely different set of coordinates having a different origin and/or axes could define a similar or identical shape. Furthermore, varying the relative atomic positions of the atoms of the structure so that the root mean square deviation of the residue backbone atoms (i.e. the nitrogen-carbon-carbon backbone atoms of the protein amino acid residues) is less than 1.5 Å (preferably less than 1.0 Å and more preferably less than 0.5 Å) when superimposed on the coordinates provided in Table 1 for the residue backbone atoms, will generally result in a structure which is substantially the same as the structure of Table 1 in terms of both its structural characteristics and potency for structure-based design of KPHMT inhibitors. Likewise changing the number and/or positions of the water molecules and/or substrate molecules of Table 1 will not generally affect the potency of the structure for structure-based design of KPHMT inhibitors. Thus for the purposes described herein as being aspects of the present invention, it is within the scope of the invention if: the Table 1 coordinates are transposed to a different origin and/or axes; the relative atomic positions of the atoms of the structure are varied so that the root mean square deviation of residue backbone atoms is less than 1.5 Å (preferably less than 1.0 Å and more preferably less than 0.5 Å) when superimposed on the coordinates provided in Table 1 for the residue backbone atoms; and/or the number and/or positions of water molecules and/or substrate molecules is varied. Reference herein to the coordinate data of Table 1 thus includes the coordinate data in which one or more individual values of the Table are varied in this way.

Also, modifications in the KPHMT crystal structure due to e.g. mutations, additions, substitutions, and/or deletions of

amino acid residues (including the deletion of one or more KPHMT protomers) could account for variations in the KPHMT atomic coordinates. However, atomic coordinate data of KPHMT modified so that a ligand that bound to one or more binding sites of KPHMT would be expected to bind to the corresponding binding sites of the modified KPHMT are, for the purposes described herein as being aspects of the present invention, also within the scope of the invention. Reference herein to the coordinates of Table 1 thus includes the coordinates modified in this way. Preferably, the modified coordinate data define at least one KPHMT binding cavity.

In a further aspect, the invention provides a method for crystallizing a selenomethionine KPHMT derivative which comprises producing KPHMT by recombinant production in a bacterial host (e.g. *E. coli*) in the presence of selenomethionine, recovering a selenomethionine KPHMT derivative from the host and growing crystals from the recovered selenomethionine KPHMT derivative.

Thus, the selenium atom KPHMT derivative and KPHMT produced by crystallising native KPHMT (see the detailed description below) are provided as crystallised proteins suitable for X-ray diffraction analysis.

The crystals may be grown by any suitable method, e.g. the hanging drop method.

In another aspect, the invention provides a method of analysing a KPHMT-ligand complex comprising the step of employing (i) X-ray crystallographic diffraction data from the KPHMT-ligand complex and (ii) a three-dimensional structure of KPHMT to generate a difference Fourier electron density map of the complex, the three-dimensional structure being defined by atomic coordinate data according to Table 1.

Therefore, KPHMT-ligand complexes can be crystallised and analysed using X-ray diffraction methods, e.g. according to the approach described by Greer *et al.*, *J. of Medicinal Chemistry*, Vol. 37, (1994), 1035-1054, and difference Fourier electron

density maps can be calculated based on X-ray diffraction patterns of soaked or co-crystallised KPHMT and the solved structure of un-complexed KPHMT. These maps can then be used to determine whether and where a particular ligand binds to KPHMT and/or changes the conformation of KPHMT.

Electron density maps can be calculated using programs such as those from the CCP4 computing package (Collaborative Computational Project 4. The CCP4 Suite: Programs for Protein Crystallography, *Acta Crystallographica*, B51, (1994), 760-763.). For map visualisation and model building programs such as O (Jones et al., *Acta Crystallography*, A47, (1991), 119-119) can be used.

In another aspect, the present invention provides a method for identifying an agent compound (e.g. an inhibitor) which modulates KPHMT activity, comprising the steps of:

- (a) employing three-dimensional atomic coordinate data according to Table 1 to characterise at least a plurality of KPHMT binding sites;
- (b) providing the structure of a candidate agent compound;
- (c) fitting the candidate agent compound to the binding sites; and
- (d) selecting the candidate agent compound.

Preferably sufficient binding sites are characterised to define a KPHMT binding cavity.

A plurality (for example two, three or four) of spaced KPHMT binding sites may be characterised and a plurality of respective compounds designed or selected. The agent compound may then be formed by linking the respective compounds into a larger compound which maintains the relative positions and orientations of the respective compounds at the binding sites. The larger compound may be formed as a real molecule or by computer modelling.

In any event, the determination of the three-dimensional structure of KPHMT provides a basis for the identification of new and specific ligands for KPHMT e.g. by computer modelling.

More specifically, a potential modulator of KPHMT activity can be examined through the use of computer modelling using a docking program such as GFAM, DOCK, or AUTODOCK (see Walters et al., *Drug Discovery Today*, Vol.3, No.4, (1998), 160-173, and Dunbrack et al., *Folding and Design*, 2, (1997), 27-42). This procedure can include computer fitting of candidate inhibitors to KPHMT to ascertain how well the shape and the chemical structure of the candidate inhibitor will bind to the enzyme.

Also computer-assisted, manual examination of the binding cavity structure of KPHMT may be performed. The use of programs such as GRID (Goodford, *J. Med. Chem.*, 28, (1985), 349-357) - a program that determines probable interaction sites between molecules with various functional groups and the enzyme surface - may also be used to analyse the binding cavity to predict partial structures of inhibiting compounds.

Computer programs can be employed to estimate the attraction, repulsion, and steric hindrance of the two binding partners (e.g. the KPHMT and a candidate inhibitor). Generally the tighter the fit, the fewer the steric hindrances, and the greater the attractive forces, the more potent the potential modulator since these properties are consistent with a tighter binding constant. Furthermore, the more specificity in the design of a potential drug, the more likely it is that the drug will not interact with other proteins as well. This will tend to minimise potential side-effects due to unwanted interactions with other proteins.

In one embodiment a plurality of candidate agent compounds are screened or interrogated for interaction with the binding sites. In one example, step (b) involves providing the structures of the candidate agent compounds, each of which is then fitted in step (c) to computationally screen a database of compounds (such as the Cambridge Structural Database) for interaction with the binding sites. In another example, a 3-D descriptor for the agent compound is derived, the descriptor including e.g. geometric and functional constraints derived from

the architecture and chemical nature of the binding cavity. The descriptor may then be used to interrogate the compound database, the identified agent compound being the compound which matches with the features of the descriptor. In effect, the descriptor is a type of virtual pharmacophore.

Having designed or selected possible binding partners, these can then be screened for activity. Consequently, the method preferably comprises the further steps of:

(e) obtaining or synthesising the candidate agent compound;
and

(f) contacting the candidate agent compound with KPHMT to determine the ability of the candidate agent compound to interact with KPHMT.

In step (e) the candidate agent compound may be contacted with KPHMT in the presence of a substrate, and typically a buffer, to determine the ability of the candidate agent compound to inhibit KPHMT. The substrate may be e.g., one or both of 5,10-CH₂-H₄folate, α -ketoisovalerate, or salts thereof. So, for example, an assay mixture for KPHMT may be produced which comprises the candidate inhibitor, substrate and buffer.

Instead of, or in addition to, performing e.g. a chemical assay, the method may comprise the further steps of:

(e) obtaining or synthesising the candidate agent compound;
(f) forming a complex of KPHMT and the candidate agent compound; and

(g) analysing (e.g. by the method of an earlier aspect of the invention) said complex by X-ray crystallography or NMR spectroscopy to determine the ability of the candidate agent compound to interact with KPHMT.

Detailed structural information can then be obtained about the binding of the agent compound to KPHMT, and in the light of this information adjustments can be made to the structure or functionality of the compound, e.g. to improve binding to the binding cavity. Steps (e) to (g) may be repeated and re-

repeated as necessary. For X-ray crystallographic analysis, the complex may be formed by crystal soaking or co-crystallisation.

In another aspect, the invention includes a compound which is identified as a modulator of KPHMT activity by the method of the fourth aspect.

Following identification of an inhibitor compound, it may be manufactured and/or used in the preparation, i.e. manufacture or formulation, of a composition such as a medicament, pharmaceutical composition or drug. These may be administered to individuals.

Thus, the present invention extends in various aspects not only to an inhibitor as provided by the invention, but also a pharmaceutical composition, medicament, drug or other composition comprising such an inhibitor e.g. for treatment (which may include preventative treatment) of disease such as microbial infection; a method comprising administration of such a composition to a patient, e.g. for treatment of disease such as microbial infection; use of such an inhibitor in the manufacture of a composition for administration, e.g. for treatment of disease such as microbial infection; and a method of making a pharmaceutical composition comprising admixing such an inhibitor with a pharmaceutically acceptable excipient, vehicle or carrier, and optionally other ingredients.

In another aspect, the invention relates to a method of determining three dimensional structures of KPHMT homologues of unknown structure by utilising the structural coordinates of Table 1.

For example, if X-ray crystallographic or NMR spectroscopic data is provided for a KPHMT homologue of unknown structure, the structure of KPHMT as defined by Table 1 may be used to interpret that data to provide a likely structure for the KPHMT homologue by techniques which are well known in the art, e.g. phase modelling in the case of X-ray crystallography.

One embodiment of the method comprises the steps of:

(a) aligning a representation of an amino acid sequence of a KPHMT homologue of unknown structure with the amino acid sequence of KPHMT to match homologous regions of the amino acid sequences;

5 (b) modelling the structure of the matched homologous regions of the KPHMT of unknown structure on the structure as defined by Table 1 of the corresponding regions of KPHMT; and

(c) determining a conformation (e.g. so that favourable interactions are formed within the KPHMT of unknown structure and/or so that a low energy conformation is formed) for the KPHMT of unknown structure which substantially preserves the structure of said matched homologous regions.

The term "homologous regions" describes amino acid residues in two sequences that are identical or have similar (e.g. 15 aliphatic, aromatic, polar, negatively charged, or positively charged) side-chain chemical groups. Identical and similar residues in homologous regions are sometimes described as being respectively "invariant" and "conserved" by those skilled in the art.

20 Preferably one or all of steps (a) to (c) are performed by computer modelling.

Homology modelling is a technique that is well known to those skilled in the art (see e.g. Greer, *Science*, Vol. 228, (1985), 1055, and Blundell et al., *Eur. J. Biochem*, Vol. 172, 25 (1988), 113).

In general, comparison of amino acid sequences is accomplished by aligning the amino acid sequence of a polypeptide of a known structure with the amino acid sequence of the polypeptide of unknown structure. Amino acids in the 30 sequences are then compared and groups of amino acids that are homologous are grouped together. This method detects conserved regions of the polypeptides and accounts for amino acid insertions or deletions.

35 Homology between amino acid sequences can be determined using commercially available algorithms. The programs *ELAST*,

gapped BLAST, *BLASTN* and *PSI-BLAST* (provided by the National Center for Biotechnology Information) are widely used in the art for this purpose, and can align homologous regions of two amino acid sequences.

5 Once the amino acid sequences of the polypeptides with known and unknown structures are aligned, the structures of the conserved amino acids in a computer representation of the polypeptide with known structure are transferred to the corresponding amino acids of the polypeptide whose structure is
10 unknown. For example, a tyrosine in the amino acid sequence of known structure may be replaced by a phenylalanine, the corresponding homologous amino acid in the amino acid sequence of unknown structure.

15 The structures of amino acids located in non-conserved regions may be assigned manually by using standard peptide geometries or by molecular simulation techniques, such as molecular dynamics (7). The final step in the process is accomplished by refining the entire structure using molecular dynamics and/or energy minimization.

20 In another aspect, the present invention provides systems, particularly a computer systems, intended to generate structures and/or perform rational drug design for KPHMT, KPHMT-ligand complexes or KPHMT homologues, the systems containing either (a) atomic coordinate data according to Table 1, said data defining
25 the three-dimensional structure of KPHMT, or (b) structure factor data for KPHMT, said structure factor data being derivable from the atomic coordinate data of Table 1.

30 In another aspect, the present invention provides computer readable media with either (a) atomic coordinate data according to Table 1 recorded thereon, said data defining the three-dimensional structure of KPHMT, or (b) structure factor data for KPHMT recorded thereon, the structure factor data being
35 derivable from the atomic coordinate data of Table 1.

By providing such computer readable media, the atomic coordinate data can be routinely accessed to model KPHMT. For

example, RASMOL (Sayle *et al.*, *TIBS*, Vol. 20, (1995), 374) is a publicly available computer software package which allows access and analysis of atomic coordinate data for structure determination and/or rational drug design.

On the other hand, structure factor data, which are derivable from atomic coordinate data (see e.g. Blundell *et al.*, in *Protein Crystallography*, Academic Press, New York, London and San Francisco, (1976)), are particularly useful for calculating e.g. difference Fourier electron density maps.

Brief Description of the Drawings

Figure 1 shows the pathway for the synthesis of pantothenic acid;

Figure 2 shows the chemical reaction between α -KIVA and 5,10-CH₂-H₄folate which is catalysed by KPHMT;

Figures 3a and b show ribbon representations of the decameric structure as viewed respectively along and from the side of the non-crystallographic five-fold axis;

Figures 4a and b show ribbon representations of respectively top and side views of a protomer;

Figure 5 shows a sequence alignment between primary structure among five members of the KPHMT family and the secondary structure of the *E. coli* enzyme;

Figure 6 shows a stereo pair wire-frame electron density map of the substrate binding site with a ketopantoate product molecule (KPL) and a metal ion believed to be Mg²⁺ on which the enzyme is dependent for its activity;

Figure 7 shows an electrostatic potential map for a protomer viewed looking towards the opening mouth of the binding cavity;

Figure 8 shows a stereo pair ribbon representation of the KPHMT binding cavity;

Figure 9 shows a schematic representation of the distorted octahedral binding site for Mg²⁺ in the KPHMT binding cavity;

Figures 10 and b show respectively side and top view stereo pair ribbon representations of the mouth of the KPHMT binding cavity; and

Figures 11a and b show stereo pair ribbon representations of respectively (a) the binding cavities of a KPHMT dimer, and (b) the interface between adjacent KPHMT dimers.

Detailed Description of the Invention

The present invention is founded on the determination of the three dimensional atomic structure of KPHMT.

Solving the Crystal Structure

1. Preparation of Recombinant KPHMT Protein.

Cell Growth

3 x 15 mL starting culture of *E-coli* Hfr3000-YA139 cells with the plasmid p3E01 containing the clone pAL01 was incubated at 37 °C overnight in LB broth containing ampicillin (50 mg/mL). This was added to 3 litres of LB broth containing ampicillin (50 mg/mL) and IPTG (90 mg/mL) and incubated at 37 °C for 16 h. Selenomethionine (SeMet) protein was over-expressed in media containing selenomethionine, as well as six other amino acids (lysine, phenylalanine, threonine, isoleucine, leucine and valine) whose presence inhibit methionine biosynthesis (8) and was purified in the same way as the wild type. The cells were harvested by centrifugation at 10,000 rpm at 4 °C for 30 min. The wet cell pellet weighed approximately 9 g.

Protein Extraction

The cell pellet was resuspended in 50 mL of 100 mM phosphate buffer (pH 7) containing 1 mM DTT, 1 mM ethylenediaminetetraacetic acid (EDTA) and 1 mM phenylmethylsulphonylfluoride (PMSF). The suspension was sonicated on ice for 1 s bursts every 3 s for 12 min and the lysate centrifuged at 12,000 rpm for 30 min. Nucleic acids were removed from the

supernatant by precipitation with 2% protamine sulphate (1 mL/g of cell pellet) and centrifugation at 12,000 rpm for 30 min.

The protein was precipitated from the supernatant with ammonium sulphate (2% - 60% saturation) and centrifugation at 12,000 rpm for 30 min. The protein pellet was dissolved in 30 mL of 100 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA and dialysed, overnight against 25 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA. The volume of the dialysed protein was reduced to below 20 mL by ultrafiltration.

Pellets that contained cell debris, 2% protamine sulphate precipitant and 0 - 25% ammonium sulphate precipitant were dissolved in a total volume of 30 mL of 100 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA, pooled and dialysed, overnight, against 25 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA. The volume of the dialysed mixture was reduced to below 20 mL by ultrafiltration and filtered through a 0.2 μ m filter. The protein was purified by FPLC.

Hiprep Q XL anion exchange chromatography

The sample, in less than 10 mL, was loaded, using a 10 mL superloop, onto a Hiprep 16/10 Q XL column equilibrated in starting buffer which consisted of 90% buffer A, containing 50 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA, and 10% buffer B containing 50 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA and 1 M potassium chloride (KCl). KPHMT was eluted in a step gradient of 0.1 - 1 M KCl in 12 column volumes (240 mL) and at a flow rate of 2.5 mL/min. The gradient was shaped as indicated below. KPHMT eluted in a single peak at about 0.4 M KCl. Eluate fractions were assessed for KPHMT content by SDS-PAGE. Fractions containing KPHMT were pooled and dialysed overnight against starting buffer.

Source 15Q anion exchange chromatography

The sample, in less than 10 mL, was loaded, using a 10 mL superloop, onto a Source 15Q XV 16/10 column equilibrated in starting buffer which consisted of 90% buffer A, containing 25 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA, and 10% buffer B containing 25 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA and 1 M KCl. KPHMT was eluted of the Source 15Q XV 16/10 column in the same way it was eluted of the HiPrep 16/10 Q XL column. KPHMT eluted in a single peak at about 0.4 M potassium chloride.

Elate fractions were assessed for KPHMT content by SDS-PAGE. Fractions containing KPHMT were pooled and dialysed overnight against starting buffer.

KCl gradient used in anion exchange chromatography of KPHMT:

- step 1 - 0.1 to 0.4 M KCl (0 - 50 mL)
- step 2 - at 0.4 M KCl (50 - 110 mL)
- step 3 - 0.4 to 0.6 M KCl (110 - 120 mL)
- step 4 - at 0.6 M KCl (120 - 180 mL)
- step 5 - 0.6 to 1 M KCl (180 - 190 mL)
- step 6 - at 1 M KCl (190 - 240 mL)

Hiload 16/60 superdex 200 pg gel filtration chromatography

Sample was loaded in less than 10 mL onto a Hiload 16/60 superdex 200 pg equilibrated in buffer containing 50 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA. A constant flow rate of 0.5 mL per minute was maintained and 3 mL fractions were collected. Fractions containing KPHMT were determined by SDS-PAGE, pooled and concentrated by ultrafiltration to greater than 5 mg/mL. 26 mg of protein was obtained from a 3 L cell culture.

2. Protein Crystallisation

The sample of KPHMT was concentrated to 24 mg/mL in 40 mM of ketopantolactone (KPL; product) and 50 mM HEPES pH 7.4. Diffraction-quality single crystals of KPHMT were obtained by

the hanging-vapor diffusion method at 4 °C. To make a drop, one volume (1.5 µl) of protein solution was placed on a siliconised cover slide, and the equivalent reservoir solution was added at 19 °C. Reservoir solution contained 9% (w/v) PEG 8000, 50 mM NaCitrate (pH 6.8), 50-100 mM Na(CH₃CO₂) and 200 mM NaCl. The plate was sealed within 1 minute and left at 4 °C. After 2 hours the plate was placed into a polystyrene box, then the box was sealed and placed at 19 °C. Single crystals with dimensions of about 0.5 x 0.3 x 0.1 mm appeared within one or two days.

These belonged to the monoclinic space group P2₁ with cell parameters $a = 86.1$ Å, $b = 157.3$ Å, $c = 100.3$ Å and $\beta = 97.4^\circ$, and accommodated one decameric enzyme per asymmetric unit, with a solvent content of 49%.

The SeMet KPHMT crystals, which were prepared in a similar way to native KPHMT crystals, seldom grew larger than 0.3 mm or thicker than about 30 µm. The SeMet KPHMT stock solution contained 2 mM KPL and 10 mM DTT to protect the Se atoms from oxidation.

2. Data Collection

The structure of KPHMT was solved by the MAD method (9) using the SeMet derivative. Data to 0.1 Å resolution were collected at 100 K, at three wavelengths on Station 18-ID of the Structural Biology Centre at the Advanced Photon Source of Argonne National Laboratory, Chicago, US. Crystals of KPHMT were cryo-protected by a protocol of gradual soaking in the cryo-protectant PEG400. Each crystal was placed in 20 ml of crystallisation solution, and the concentration of PEG400 was gradually increased to 20% (v/v) in 5% increments. The soaking time at each PEG400 concentration was a minimum of 15 minutes. At each concentration step, KPL was added to a concentration of 2 mM. The flash-cooled crystals were used for data collection.

An X-ray fluorescence spectrum was recorded and used to select wavelengths for subsequent MAD data collection. Data were collected at the Se absorption edge $\lambda_e = 0.97939$ Å, the

absorption peak $\lambda_p = 0.97927 \text{ \AA}$ and at remote reference wavelength $\lambda_r = 0.9393 \text{ \AA}$. The diffraction data were indexed and integrated using the *D*TREK* suite (10), and reflexions were indexed and integrated using *MOSFLM* (11). The three data sets were scaled to the remote data-set using *SCALA* (12) and structure-factor amplitudes were calculated using *TRUNCATE* (13). Statistics of the processed data are listed in Table 2.

The native data set was collected to 1.8 \AA resolution on Station 19-ID. A cryo-protectant solution for the native crystals contained 9% PEG8000, 50 mM NaCitrate (pH 6.5), 50-100 mM $\text{Na}(\text{CH}_3\text{CO}_2)$, 200 mM NaCl, and 20% of PEG400.

4. Structure Determination and Refinement

169 out of the 180 Se sites in the asymmetric unit were found with the program *SnB* (14) using direct methods and anomalous difference data of λ_p SeMet. Data were phased with *SHARP* (15) using all three wavelength data sets, which also revealed two additional Se sites in the residual maps.

Data collected at the remote wavelength were treated as the reference data set and resolution limits of 40 to 2.3 \AA were imposed. Experimental values of the anomalous dispersion (f' and f'' in Table 2) estimated from fluorescence spectra were used and refined during analysis. The resulting values are very similar to the theoretical values and are given in Table 2.

Experimental phases were improved by solvent flattening using *SOLOMON* (CCP4, 1994), via the *SUSHI* graphical user interface (La Fortelle et al., 1997) with a solvent content of 430%. The final electron-density map was easily interpretable and the whole polypeptide chain was assigned based on the initial electron density map.

The polypeptide chain was fitted in the MAD electron density map using program *O* (16). Rounds of maximum likelihood refinement with *REFMAC* (17) were alternated with visual inspection of electron density and manual rebuilding of side

chains. Several rounds of simulated annealing with CNS (18) were included to refine the position of the main chain properly.

Table 1 provides the atomic coordinates of the final model.

The quality of the final model was assessed from

5 Ramachandran plots and the analysis of the model geometry was carried out with the program *PROCHECK* (19). 10% of the reflections were set aside for R_{free} calculations. The plot indicated that 90.2% of the residues lay in the favourable regions and 9.8% in the allowed regions. The final R and R_{free} factors of the structure for all reflections between 75.0 and 1.3 Å resolutions were 0.229 and 0.263, respectively. The structural model for KPHMT consists of a decamer in the asymmetric unit with 2,649 amino residues, 19,130 protein atoms (non-hydrogen), 199 substrate atoms (non-hydrogen), 1,611 water molecules and 10 metal ions. The last cycle of the refinement without NCS-restraints gave a reasonable stereo-chemistry by using 222,076 unique reflections in the range of 75.0 to 1.3 Å resolution. The root mean-square deviation from standard values are 0.006 Å in bond distances (1-3 distance), 1.2° in angle distances (1-3 distance), and 22.1° in dihedral angles (planar 1-4 distance). From a Ramachandran plot the model was considered to exhibit a good stereo-chemistry.

Structural Characterisation

25 The crystal structure of KPHMT is based on a decameric asymmetric unit formed by a pentamer of dimers related by a non-crystallographic five-fold axis. Figures 3a and b show ribbon representations of the decameric structure as viewed respectively along and from the side of the non-crystallographic five-fold axis.

30 The dimensions of the decamer are approximately 100 x 100 x 75 Å. The accessible area of the decamer, 83,200 Å², is small considering the surface area for each protomer (i.e. monomer subunit), 10,800 Å², while the buried surface of each protomer is 23 . The close packing of the protomers explains the

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protein's remarkable resistance to denaturation by heat and urea (20). The interface between protomers in each dimeric unit is large (1140 Å²) and tightly organised, involving 88 (20 hydrophilic and 68 hydrophobic) interactions. However, the interface between protomers in the pentamer is smaller (760 Å²) and involves only 20 (6 hydrophilic and 14 hydrophobic) interactions. For this reason, we believe that the dimer is the functional unit. This is corroborated by the homologue from *Aspergillus nidulans*, which is an octamer (3).

Each protomer is approximately spherical and has overall dimensions of 50 x 50 x 40 Å. Ribbon representation top and side views of a protomer are presented in Figures 4c and d. The tertiary structure is an $\alpha\beta_8$ (TIM (triose phosphate isomerase) barrel with an extra α -helix located at the base of the β -barrel (21). The barrel consists of eight parallel β -strands surrounded by eight α -helices.

Sequence Alignment

If proteins or translated gene-sequences have been identified using a PSI-BLAST search, with high enough similarity to be classified as members of the KPHMT family (22). The enzyme is found in bacteria, lower eukaryotes (e.g. yeast) and in the plant *Arabidopsis thaliana* but is not found in *Caenorhabditis elegans*, *Drosophila melanogaster* or, as yet, in other higher eukaryotes. This is consistent with the end product of this pathway being a vitamin. We have analyzed the sequences from the 35 members of this family to identify residues important to the mode of action. Correlation between primary structure among five members of the KPHMT family and the secondary structure of the *E. coli* enzyme is shown in Figure 5. The consensus sequence, generated by ClustalW (23) with the sequences of the 35 members, highlights that of the 264 residues, 23 residues are invariant while an additional 77 are conserved. Six conserved sequence motifs, at least six residues in length, were also identified. These are ¹LeuValGlyAspSerLeuGlyMet⁴⁹,

¹¹¹ValLysIleGluGlyGly¹¹⁶, ¹³⁵GlyHisXGlyLeuThrProGln¹⁴² (where X is a hydrophobic residue), ¹⁴⁸GlyGlyTyrLysValGlnGly¹⁵⁴, ²⁰⁰IleGlyIleGlyAlaGly²⁰⁵ and ²⁰⁹AspGlyAsnIleLeuVal²¹⁴. The first two of the six motifs contain residues shown in the crystal structure to be involved in binding the ketopantoate (and hence the substrate) or metal ion.

Deletion of residue Gly 168 (which corresponds to Gly 205 in the fifth motif given above) in *A. nidulans* has been shown to prevent cell growth (3). This residue is invariant in 34 out of the 31 KPHMT sequences and mutated to serine in a potentially inactive isoform from *Pseudomonas aeruginosa*. Thus, the motif may be required for correct folding of the protein.

Substrate Binding Site

The substrate binding site is located in a large cavity at the protein C-terminus ends of the β -strands. The cavity extends almost one quarter the distance in to the protein and is about 20 Å in length and about 10 Å x 15 Å in transverse section. The substrate is believed to bind before the cofactor, because the cofactor binds at the mouth of the cavity effectively blocking access to the cavity. Figure 6 is a stereo pair wire-frame electron density map of the substrate binding site showing a ketopantoate product molecule (KPL) and a metal ion believed to be Mg²⁺ on which the enzyme is dependent for its activity.

The electrostatic potential map for a protomer (shown in Figure 7) demonstrates that the opening mouth of the binding cavity is highly charged. The surface contains eight highly conserved residues that hydrogen bond to each other and the substrate or product. As shown in Figure 8, which is a stereo pair ribbon representation of the binding cavity, Asp 45 and Asp 84 hydrogen bond to Gln 142 and Lys 112, respectively, while Ser 46, Glu 131 and Lys 112 hydrogen bond to ketopantoate and the residues Tyr 25, His 136 and Asp 84.

The Mg^{2+} ion is bound in a distorted octahedral binding site of the binding cavity. Residues, Asp 46 and Asp 84 occupy axial and equatorial positions, respectively, while Glu 114 coordinates to Mg^{2+} through a water molecule that occupies an equatorial position. The keto and carboxyl groups of the product take up an axial and an equatorial position, respectively and the last equatorial position is occupied by a water molecule. Figure 9 shows a schematic representation of the distorted octahedral binding site.

The coordination around Mg^{2+} is distorted due to hydrogen bonding between Glu 181 and the hydroxymethyl group of the product. We believe the geometry of the Mg^{2+} ion is less distorted, and hence lower in stabilization energy, when ketopantoate (product) is replaced by α -KIVA (substrate). This may be one mechanism by which the enzyme senses and releases the product.

Cofactor Binding Site

As yet, a 5,10- CH_2 - H_4 folate cofactor binding motif has not been identified by X-ray crystallography. Nonetheless, we have developed an approach to find the cofactor binding site.

Initially we compared our structure to structures of tetrahydrofolate-dependent enzymes bound to folate analogues. The January, 2001 release of the Protein Data Bank (PDB) contains seven enzymes that bind tetrahydrofolate (THF). These are dihydrofolate reductase (DHFR), phosphoribosylglycinamide formyltransferase (PRGF), methylenetetrahydrofolate dehydrogenase (MTHD), glycinamide ribonucleotide transformylase (GRTF), thymidylate synthase (TS), serine hydroxymethyl transferase (SHMT), and methylenetetrahydrofolate reductase (MTR). A structural similarity search by the program DALI (24) shows that only four of the above proteins appear to be similar to KPHMT. These are MTR, DHFR, PRGF and SHMT, but for MTR, DHFR and PRGF, the distance of the folate cofactor binding site is

too far from the substrate binding site relative to the corresponding distance in KPHMT.

This left SHMT, which appears to be functionally similar to KEHMT, although SHMT is a class I aldolase (KPHMT is a class II aldolase) because pyridoxal phosphate is used in addition to the folate cofactor. Given the crystal structures of SHMT from *E. coli* bound to the folate, 5-formyl-THF (25) and TS bound to 5,10-CH₂-H₄folate or analogues thereof (26), we were able to propose a tentative model for the binding 5,10-CH₂-H₄folate to KPHMT.

Next, using multiple sequence alignment (see Figure 5) to identify residues implicated in cofactor binding, we were able to fine tune the proposed model for cofactor binding. The fine tuned model is shown in Figures 1a and b which are side and top view stereo pair ribbon representations of the mouth of the binding cavity.

In this model, 5,10-CH₂-H₄folate (mTHF) binds near the entrance to the binding cavity at a depth of 15Å. The distance between the target carbon atoms, C11 in 5,10-CH₂-H₄folate and C3 in the substrate, is about 4.5Å, a favourable distance for a reaction to occur.

The cofactor makes relatively few contacts with the protein. Interestingly, these contacts are located in regions of undefined secondary structure, namely, the loop regions that compose the entrance to the binding cavity. The loops in question are between β5 and α7 (L1), α9 and α10 (L2) and the C-terminus (L3). Being regions of undefined secondary structure these loops may be highly flexible and thus, undergo structural changes upon cofactor binding. We have identified conserved residues that impart either flexibility or make strong interactions that may impart rigidity (definition) to these loops. Thus we believe that upon cofactor binding these loops undergo discrete structural changes.

Loop, L1, contains two of the six above-mentioned conserved motifs. The first half of this loop, is located deeper in the

binding cavity and contains Gln 142, which H-bonds to the axial Mg^{2+} ligand, Asp 45. This half of the loop is probably rigid since it contains a turn between Asn 145 and Gly 149. The second half of the loop consists predominantly of the second motif. Both ends of this motif, namely residues Gly 148 (invariant) and Gly 154 may make this part of the loop flexible. Gln 153 is implicated in a hydrogen bond to the amide of Lys 151, which upon cofactor binding may move to interact with the polyglutamate chain of the cofactor (see below for more discussion of this). Loop, L2, is relatively long with little sequence conservation. Invariant Gly 220 may impart some flexibility to this loop while residues Asp 217, Lys 218 and Phe 229 are implicated in binding the cofactor. In L2, invariant Pro 257 is in van der Waals contact with Gly 205 and Gln 211, while His 261 hydrogen bonds to Lys 218 and Glu 163. Thus, the deletion of Gly 163 in *A. nidulans* would lead to a distortion in the loop between $\beta 7$ and $\beta 8$ which may in turn lead to a disordering in adjacent loops such as L3 which could potentially prevent cofactor from binding. We, therefore propose that the *panB* auxotroph from *A. nidulans* is caused by the inability of the mutant KPHMT enzyme to bind the cofactor and therefore to function.

There are four main protein-cofactor interactions, namely, three hydrogen bonds and a π -stacking interaction. The nitrogen atom at N2 of 5,10- CH_2 - H_4 folate hydrogen bonds to Asp 217, while the side chain carboxyl group of the first glutamate hydrogen bonds to the carboxyl group of Tyr 150, and Lys 218. A stronger interaction is a π -stacking or hydrophobic interaction between the *p*-aminobenzoic acid (PABA) ring of the cofactor and the highly conserved residues Tyr 150 and Phe 229. Tyr 150 or phenylalanine, which in this instance is a functional replacement, is found at this position in 31 out of the 35 KPHMT sequences discussed above, while Phe 229 is found at this position in 34 out of the 35 KPHMT sequences. Interestingly, crystal structures of the THF-dependent enzymes, TS and SHMT,

with cofactor analogues bound, also implicate a π -stacking or hydrophobic interaction between the PABA ring and a tyrosine or phenylalanine (25). It would appear that nature has converged on this mechanism to bind folate cofactors.

Most folate-dependent enzymes have a higher affinity for the polyglutamate form of the folate cofactor, with the greatest increase in affinity occurring with two or three glutamate residues (27). Presumably, the polyglutamate tail increases the affinity for enzyme through interactions with surface positive charges. In the crystal structure of the bifunctional enzyme dihydrofolate reductase-thymidylate synthase from *Leishmania major*, the polyglutamate tail of dihydrofolate makes few specific contacts but rather is held in place by the positive charge of the local electrostatic field (28). We have identified four positive residues in KPHMT that could interact with the polyglutamate tail. These are Lys 151, Arg 155 (in loop L1), Lys 211 (in loop L2) and His 261 (in loop L3).

KPHMT Catalysis

KPHMT catalyses the transfer of a hydroxymethyl group from cofactor (5,10-CH₂-H₄folate) to substrate (α -KIVA). The transferase reaction is an aldol reaction, namely deprotonation of the C3- carbon of α -KIVA followed by nucleophilic attack on the cofactor. The crystal structure of the apo enzyme gives insights into the first stage in the enzyme mechanism, namely, activation of substrate and cofactor.

The C3 carbon is intrinsically acidic, through conjugation of the carboxyl and keto group, however, its acidity is enhanced by coordination of the substrate to the magnesium ion. Magnesium coordination also anchors and orients the substrate for subsequent deprotonation and nucleophilic attack. Also, the increase in distortion from octahedral geometry between substrate and product bound to the ion may be one mechanism by which the enzyme senses and releases product. The basic residue involved in abstraction of the C-3 proton of α -KIVA is believed

to be Glu 181. The basicity of this residue is enhanced by a network of hydrogen bonds connecting residue Glu 181 with residues His 136 and Lys112, which constitute an invariant triad. In the crystal structure of the apo enzyme, Glu 181 is involved in a hydrogen bond with the hydroxymethyl group of the product ketopantoate - giving rise to the greater distortion from octahedral geometry. A final role for this versatile residue is as the acid in the protonation of N10 of 5,10-CH₂-H₄folate. Kallen and Jencks (29) have concluded that the reactive component of the 5,10-CH₂-H₄folate cofactor is the iminium intermediate, formed by breakage of the C11-N10-bond and protonation of N10. This is supported by the crystal structure of TS from *Lactobacillus casei* where the imidazolidine ring has opened and the iminium intermediate has been hydrated (26). Thus, Glu 181 is believed to abstract a proton from α -KIVA and supply it to the cofactor.

Evidence for Cooperativity

KPHMT, the first enzyme in the pathway for the synthesis of pantothenic acid (see Figure 1), is inhibited by later intermediates, namely pantoate, pantothenate and CoA (1). This is most probably linked to the decameric architecture of the enzyme and involves multiple binding sites for effectors such as later pathway intermediates. All three, pantoate, pantothenate and CoA exhibit negative feedback, decreasing V_{max} , increasing K_m and enhancing cooperativity for the substrate. We believe we have found evidence, albeit tentative, of communication between protomers, a pre-requisite for cooperativity.

As pointed out earlier, the interface between protomers in the dimeric unit is tightly organised, involving 88 (20 hydrophilic and 68 hydrophobic) interactions. In particular one network of hydrogen bonds links the binding cavities of the vertically adjacent protomers. In the crystal structure of the apo enzyme, the products in the two vertically adjacent binding cavities are separated by only 31 Å. The H-bond network extends

from ketopantoate to Ser 46 then Tyr 25 and His 68 of one subunit to Tyr 67 then His 68 then Tyr 25 then Ser 46 and finally ketopantoate of the next subunit. In the multiple sequence alignment discussed above all residues except Tyr 67 are conserved. An interaction between Asp 26 of one subunit and His 68 of the next could replace this interaction in organisms where there is no residue at position 67 able to H-bond to His 68. The alternate H-bond network would then extend from keptanoate to Ser 46 then Tyr 25 then Asp 26 of one subunit to His 68 then Tyr 25 then Ser 46 and finally keptanoate of the next subunit (see Figure 11b which is a stereo pair ribbon representation of the binding cavities of a modified KPHMT dimer).

We believe we have also identified communication between subunits within the same pentamer. This interface is close to the opening to the binding cavity, the C-terminus (loop, L3), loop, L1 and the N-terminus of the adjacent subunit (see Figure 11k which is a stereo pair ribbon representation of the interface between adjacent KPHMT dimers). Binding of cofactor and substrate would affect the structure of loops, L1 and L3 and thus affect the interaction at this interface. Of particular note, is the region within loop, L1 consisting of residues Gly 138 to Gln 158. Residues, Gln 142 and Tyr 150 are respectively implicated in interacting with Mg^{2+} (indirectly) and cofactor. We have also identified a residue, Lys 151, that in the crystal structure of the apo enzyme H-bonds across the interface to Thr 5 of the adjacent dimer. We speculate that binding of cofactor will cause loop L1 to move in this region, the Lys 151 - Thr 5 interaction to break, and a new interaction between Lys 151 and the polyglutamate tail of the cofactor to form.

Structure-Based Drug Design

Determination of the 3D structure of KPHMT provides important information about the binding sites of KPHMT, particularly when comparisons are made with similar enzymes.

This information may then be used for rational design of KPHMT inhibitors, e.g. by computational techniques which identify possible binding ligands for the binding sites, by enabling linked-fragment approaches to drug design, and by enabling the identification and location of bound ligands using X-ray crystallographic analysis. These techniques are discussed in more detail below.

Greer *et al.* describes an iterative approach to ligand design based on repeated sequences of computer modelling, protein-ligand complex formation and X-ray crystallographic or NMR spectroscopic analysis. Thus novel thymidylate synthase inhibitor series were designed *de novo* by Greer *et al.*, and KPHMT inhibitors may also be designed in the this way. More specifically, using e.g. GRID on the solved 3D structure of KPHMT, a ligand (e.g. a potential inhibitor) for KPHMT may be designed that complements the functionalities of the KPHMT binding site(s). The ligand can then be synthesised, formed into a complex with KPHMT, and the complex then analysed by X-ray crystallography to identify the actual position of the bound ligand. The structure and/or functional groups of the ligand can then be adjusted, if necessary, in view of the results of the X-ray analysis, and the synthesis and analysis sequence repeated until an optimised ligand is obtained. Related approaches to structure-based drug design are also discussed in Bohacek *et al.*, Medicinal Research Reviews, Vol.16, (1996), 3-50.

As a result of the determination of the KPHMT 3D structure, more purely computational techniques for rational drug design may also be used to design KPHMT inhibitors (for an overview of these techniques see e.g. Walters *et al.*). For example, automated ligand-receptor docking programs (discussed e.g. by Jones *et al.* in Current Opinion in Biotechnology, Vol.6, (1995), 652-656) which require accurate information on the atomic coordinates of target receptors may be used to design potential KPHMT inhibitors.

Linked-fragment approaches to drug design also require accurate information on the atomic coordinates of target receptors. The basic idea behind these approaches is to determine (computationally or experimentally) the binding locations of plural ligands to a target molecule, and then construct a molecular scaffold to connect the ligands together in such a way that their relative binding positions are preserved. The connected ligands thus form a potential lead compound that can be further refined using e.g. the iterative technique of Greer *et al.*. For a virtual linked-fragment approach see Verlinde *et al.*, *J. of Computer-Aided Molecular Design*, 6, (1992), 131-147, and for NMR and X-ray approaches see Shuker *et al.*, *Science*, 274, (1996), 1531-1534 and Stout *et al.*, *Structure*, 6, (1998), 839-848. The use of these approaches to design KPHMT inhibitors is made possible by the determination of the KPHMT structure.

Many of the techniques and approaches to structure-based drug design described above rely at some stage on X-ray analysis to identify the binding position of a ligand in a ligand-protein complex. A common way of doing this is to perform X-ray crystallography on the complex, produce a difference Fourier electron density map, and associate a particular pattern of electron density with the ligand. However, in order to produce the map (as explained e.g. by Blundell *et al.*) it is necessary to know beforehand the protein 3D structure (or at least the protein structure factors). Therefore, determination of the KPHMT structure also allows difference Fourier electron density maps of KPHMT-ligand complexes to be produced, which can greatly assist the process of rational drug design.

The approaches to structure-based drug design described above all require initial identification of possible compounds for interaction with target bio-molecule (in this case KPHMT). Sometimes these compounds are known e.g. from the research literature. However, when they are not, or when novel compounds are wanted, a first stage of the drug design program may involve

computer-based *in silico* screening of compound databases (such as the Cambridge Structural Database) with the aim of identifying compounds which interact with the binding site or sites of the target bio-molecule. Screening selection criteria may be based on pharmacokinetic properties such as metabolic stability and toxicity. However, determination of the KPHMT structure allows the architecture and chemical nature of each KPHMT binding site to be identified, which in turn allows the geometric and functional constraints of a descriptor for the potential inhibitor to be derived. The descriptor is, therefore, a type of virtual 3-D pharmacophore, which can also be used as selection criteria or filter for database screening.

While the invention has been described in conjunction with the exemplary embodiments described above, many equivalent modifications and variations will be apparent to those skilled in the art when given this disclosure. Accordingly, the exemplary embodiments of the invention set forth are considered to be illustrative and not limiting. Various changes to the described embodiments may be made without departing from the spirit and scope of the invention.

The references in the above text and listed below are incorporated by reference.

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TABLE 1

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REMARK coordinates from minimization and B-factor refinement
REMARK refinement resolution: 500.0 - 1.8 Å
REMARK starting r= 0.3289 free_r= 0.3635
REMARK final   r= 0.2292 free_r= 0.2678
REMARK rmsd bonds= 0.005641 rmsd angles= 1.11562
REMARK B rmsd for bonded mainchain atoms= 1.325 target= 1.5
REMARK B rmsd for bonded sidechain atoms= 2.001 target= 2.0
REMARK B rmsd for angle mainchain atoms= 2.071 target= 2.0
REMARK B rmsd for angle sidechain atoms= 2.863 target= 2.5
REMARK target= mlf final wa= 1.10321
REMARK final rweight= 0.0678 (with wa= 1.10321)
REMARK md-method= torsion annealing schedule= constant
REMARK starting temperature= 1000 total md steps= 1 * 100
REMARK cycles= 2 coordinate steps= 20 B-factor steps= 10
REMARK sq= P2(1) a= 86.074 b= 157.170 c= 100.181 alpha= 90 beta= 97.44 gamma= 90
REMARK topology file 1 : CNS_TOPPAR:protein.top
REMARK topology file 2 : CNS_TOPPAR:dna-rna.top
REMARK topology file 3 : CNS_TOPPAR:water.top
REMARK topology file 4 : CNS_TOPPAR:ion.top
REMARK topology file 5 : ./TOPP_PARM:ekpl.top
REMARK parameter file 1 : CNS_TOPPAR:protein_rep.param
REMARK parameter file 2 : CNS_TOPPAR:dna-rna_rep.param
REMARK parameter file 3 : CNS_TOPPAR:water_rep.param
REMARK parameter file 4 : CNS_TOPPAR:ion_rep.param
REMARK parameter file 5 : ./TOPP_PARM/ekpl.param
REMARK molecular structure file: generate.mtf
REMARK input coordinates: generate.pdb
REMARK reflection file ./int/parb.cov
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 1.8
REMARK initial B-factor correction applied to fobs :
REMARK B11= -1.301 B22= -2.174 B33= 3.425
REMARK B12= 0.000 B13= 1.230 B23= 0.000
REMARK B-factor correction applied to coordinate array B: 0.284
REMARK bulk solvent density level= 1.002735 e/Å³, B-factor= 64.435 Å²
REMARK reflections with Fobs/sigma_F < 0.0 rejected
REMARK reflections with Fobs! > 100 (0 rms-Fobs) rejected
REMARK theoretical total number of refl. in resol. range: 243584 ( 100.0 %)
REMARK number of unobserved reflections (no entry or |F|=0): 14308 ( 5.9 %)
REMARK number of reflections rejected: 0 ( 0.0 %)
REMARK total number of reflections used: 229076 ( 94.1 %)
REMARK number of reflections in working set: 206168 ( 84.7 %)
REMARK number of reflections in test set: 22908 ( 9.4 %)
CRYST1 86.074 157.170 100.181 90.00 97.44 90.00 P 21
REMARK FILENAME="refine.pdb"
REMARK DATE:17-Oct-00 01:40:10 created by user: inouet
REMARK VERSION:1.0
ATOM 1 CB MET 1 1.111 12.262 69.884 1.00 67.43
ATOM 2 CG MET 1 0.547 11.220 70.906 1.00 69.43
ATOM 3 SD MET 1 1.512 11.428 72.507 1.00 72.24
ATOM 4 CE MET 1 3.012 10.536 72.306 1.00 71.04
ATOM 5 C MET 1 1.112 10.813 67.848 1.00 63.63
ATOM 6 O MET 1 2.145 10.936 66.998 1.00 63.58
ATOM 7 N MET 1 -0.874 11.909 63.546 1.00 65.58
ATOM 8 CA MET 1 0.611 12.042 63.480 1.00 65.57
ATOM 9 N LYS 2 0.831 6.631 63.271 1.00 61.30
ATOM 10 CA LYS 2 1.111 9.579 63.750 1.00 58.18
ATOM 11 CG LYS 2 1.110 7.558 63.886 1.00 59.31
ATOM 12 CD LYS 2 3.111 6.171 60.610 1.00 60.51
ATOM 13 CE LYS 2 3.111 7.096 71.323 1.00 61.80
ATOM 14 CG LYS 2 2.114 6.972 71.585 1.00 61.31
ATOM 15 NH LYS 1 3.111 5.457 71.377 1.00 61.30
ATOM 16 C LYS 2 0.813 7.577 67.003 1.00 54.44
ATOM 17 O LYS 2 -0.139 6.631 67.548 1.00 55.18
ATOM 18 N PRO 3 0.021 7.953 65.749 1.00 50.60
ATOM 19 CG PRO 3 -0.130 7.607 64.793 1.00 49.24
ATOM 20 CD PRO 3 0.613 9.074 65.034 1.00 45.18
ATOM 21 CE PRO 2 0.147 8.991 63.644 1.00 43.20
ATOM 22 CG PRO 3 -0.130 7.717 64.455 1.00 43.74
ATOM 23 C PRO 3 -0.131 10.240 65.014 1.00 44.10
ATOM 24 O PRO 3 -1.112 10.233 65.547 1.00 44.10
ATOM 25 N THR 4 0.111 11.363 64.381 1.00 41.13
ATOM 26 CA THR 4 -0.105 12.586 64.184 1.00 41.13
ATOM 27 CG THR 4 0.110 13.879 64.113 1.00 39.10
ATOM 28 OG1 THR 4 1.113 13.866 65.403 1.00 39.60

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ATOM	29	CG2	THR	4	-0.496	15.084	64.077	1.00	30.09
ATOM	30	C	THR	4	-1.136	12.516	63.017	1.00	31.90
ATOM	31	O	THR	4	-0.190	12.415	61.917	1.00	31.80
ATOM	32	N	THR	5	-2.155	12.574	63.156	1.00	30.88
ATOM	33	CA	THR	5	-3.636	12.494	61.999	1.00	28.90
ATOM	34	CB	THR	5	-4.616	11.20	62.137	1.00	30.11
ATOM	35	CG1	THR	5	-5.141	11.602	63.189	1.00	31.11
ATOM	36	CG2	THR	5	-3.764	10.635	62.461	1.00	29.84
ATOM	37	C	THP	5	-4.441	13.564	61.789	1.00	28.70
ATOM	38	O	THP	5	-4.407	14.684	62.601	1.00	28.11
ATOM	39	N	ILE	6	-5.184	13.804	60.681	1.00	28.91
ATOM	40	CA	ILE	6	-6.609	14.961	60.560	1.00	26.80
ATOM	41	CB	ILE	6	-6.771	14.349	59.041	1.00	30.80
ATOM	42	CG2	ILE	6	-7.445	16.047	58.617	1.00	28.12
ATOM	43	CG1	ILE	6	-5.811	14.798	57.945	1.00	30.11
ATOM	44	CD1	ILE	6	-6.153	13.840	56.631	1.00	31.94
ATOM	45	C	ILE	6	-7.016	15.189	61.433	1.00	28.79
ATOM	46	O	ILE	6	-7.139	16.127	61.819	1.00	30.34
ATOM	47	N	SER	7	-7.495	14.091	62.631	1.00	28.70
ATOM	48	CA	SER	7	-8.474	14.142	63.133	1.00	30.34
ATOM	49	CB	SER	7	-8.746	13.530	63.631	1.00	31.47
ATOM	50	CG	SER	7	-8.910	12.622	62.731	1.00	29.71
ATOM	51	C	SER	7	-9.984	13.066	64.131	1.00	28.11
ATOM	52	O	SER	7	-8.711	13.551	64.609	1.00	28.60
ATOM	53	N	LEU	8	-6.111	14.901	64.533	1.00	28.71
ATOM	54	CA	LEU	8	-6.031	15.688	65.630	1.00	28.46
ATOM	55	CB	LEU	8	-4.111	15.190	65.778	1.00	28.11
ATOM	56	CG	LEU	8	-3.844	15.154	65.130	1.00	30.88
ATOM	57	CD1	LEU	8	-2.431	15.499	65.101	1.00	30.11
ATOM	58	CD2	LEU	8	-4.384	16.102	68.081	1.00	30.60
ATOM	59	C	LEU	8	-6.141	17.113	65.131	1.00	28.60
ATOM	60	O	LEU	8	-6.131	17.843	66.131	1.00	28.41
ATOM	61	N	LEU	8	-5.951	17.189	64.131	1.00	28.70
ATOM	62	CA	LEU	8	-6.114	19.005	63.131	1.00	24.60
ATOM	63	CB	LEU	8	-5.081	19.119	63.131	1.00	28.70
ATOM	64	CG	LEU	8	-3.911	18.618	63.131	1.00	18.60
ATOM	65	CD1	LEU	8	-3.401	19.111	66.131	1.00	18.61
ATOM	66	CD2	LEU	8	-3.011	19.167	63.131	1.00	18.61
ATOM	67	C	LEU	8	-7.401	19.100	63.131	1.00	28.68
ATOM	68	O	LEU	8	-7.701	20.610	64.131	1.00	28.61
ATOM	69	N	GLN	10	-8.196	18.617	63.431	1.00	28.11
ATOM	70	CA	GLN	10	-9.888	18.990	63.401	1.00	30.17
ATOM	71	CB	GLN	10	-10.112	17.869	62.131	1.00	31.46
ATOM	72	CG	GLN	10	-12.091	18.210	62.511	1.00	34.98
ATOM	73	CD	GLN	10	-12.163	19.495	61.631	1.00	34.51
ATOM	74	OE1	GLN	10	-12.158	20.601	62.231	1.00	30.90
ATOM	75	NE2	GLN	10	-12.118	19.343	60.431	1.00	30.91
ATOM	76	C	GLN	10	-10.111	19.239	64.831	1.00	34.58
ATOM	77	O	GLN	10	-11.132	20.666	65.631	1.00	38.51
ATOM	78	N	LYS	11	-9.440	18.518	65.131	1.00	38.20
ATOM	79	CA	LYS	11	-9.861	18.694	67.131	1.00	31.10
ATOM	80	CB	LYS	11	-9.134	17.548	68.011	1.00	30.11
ATOM	81	CG	LYS	11	-9.466	17.188	69.111	1.00	41.11
ATOM	82	CD	LYS	11	-8.171	16.890	70.111	1.00	40.49
ATOM	83	CE	LYS	11	-9.141	15.446	70.331	1.00	40.75
ATOM	84	NE	LYS	11	-8.111	14.533	71.131	1.00	40.44
ATOM	85	C	LYS	11	-9.178	19.016	67.631	1.00	30.17
ATOM	86	O	LYS	11	-9.968	19.721	68.431	1.00	38.57
ATOM	87	N	TYR	12	-8.119	20.315	67.131	1.00	36.59
ATOM	88	CA	TYR	12	-7.511	21.585	67.131	1.00	30.53
ATOM	89	CB	TYR	12	-6.145	21.665	66.631	1.00	36.51
ATOM	90	CG	TYR	12	-5.070	20.893	67.431	1.00	30.50
ATOM	91	CH1	TYR	12	-3.899	20.534	66.731	1.00	38.63
ATOM	92	CH2	TYR	12	-3.879	19.569	67.231	1.00	18.86
ATOM	93	CH3	TYR	12	-5.112	20.381	68.731	1.00	30.36
ATOM	94	CH4	TYR	12	-4.213	19.511	68.331	1.00	30.58
ATOM	95	CD	TYR	12	-3.017	19.264	68.631	1.00	39.25
ATOM	96	CE	TYR	12	-2.014	18.514	69.231	1.00	40.19
ATOM	97	C	TYR	12	-8.311	22.615	67.131	1.00	34.82
ATOM	98	O	TYR	12	-8.411	23.148	67.631	1.00	34.13
ATOM	99	N	LYS	13	-8.890	22.822	65.231	1.00	34.10
ATOM	100	CA	LYS	13	-9.611	23.990	65.431	1.00	35.74
ATOM	101	CB	LYS	13	-10.087	23.765	64.011	1.00	34.51
ATOM	102	CG	LYS	13	-10.895	24.927	63.431	1.00	34.21
ATOM	103	CD	LYS	13	-11.268	24.648	62.011	1.00	31.63
ATOM	104	CE	LYS	13	-10.274	25.641	61.431	1.00	31.85
ATOM	105	NE	LYS	13	-11.171	26.111	61.131	1.00	30.98

ATOM	106	C	LYS	13	-10.878	24.124	65.385	1.00	35.28
ATOM	107	O	LYS	13	-11.336	25.240	64.682	1.00	34.68
ATOM	108	N	GLN	14	-11.404	23.004	64.869	1.00	38.20
ATOM	109	CA	GLN	14	-12.172	23.018	64.744	1.00	40.77
ATOM	110	CB	GLN	14	-13.049	21.531	64.607	1.00	41.50
ATOM	111	CG	GLN	14	-13.862	20.900	64.480	1.00	41.11
ATOM	112	CD	GLN	14	-13.789	19.400	64.352	1.00	41.44
ATOM	113	OE1	GLN	14	-14.111	18.939	64.236	1.00	41.52
ATOM	114	NE2	GLN	14	-13.419	18.615	64.187	1.00	40.19
ATOM	115	C	GLN	14	-12.177	23.648	64.611	1.00	40.53
ATOM	116	O	GLN	14	-13.043	24.409	64.548	1.00	40.91
ATOM	117	N	GLU	15	-11.010	23.443	64.545	1.00	39.66
ATOM	118	CA	GLU	15	-10.144	24.066	71.805	1.00	39.12
ATOM	119	CB	GLU	15	-9.144	23.084	71.405	1.00	40.94
ATOM	120	CG	GLU	15	-10.012	21.607	71.309	1.00	43.66
ATOM	121	CD	GLU	15	-9.013	20.679	71.180	1.00	44.96
ATOM	122	OE1	GLU	15	-7.014	20.638	71.508	1.00	44.85
ATOM	123	OE2	GLU	15	-9.409	19.989	71.121	1.00	48.88
ATOM	124	C	GLU	15	-8.880	25.357	71.382	1.00	38.67
ATOM	125	O	GLU	15	-9.181	25.985	71.502	1.00	38.11
ATOM	126	N	LYS	16	-9.389	23.801	64.113	1.00	37.45
ATOM	127	CA	LYS	16	-9.149	21.009	64.339	1.00	36.53
ATOM	128	CB	LYS	16	-9.117	22.135	64.655	1.00	39.14
ATOM	129	CG	LYS	16	-10.110	22.105	64.758	1.00	42.41
ATOM	130	CD	LYS	16	-9.063	22.912	64.783	1.00	44.77
ATOM	131	CE	LYS	16	-10.809	20.790	64.794	1.00	45.69
ATOM	132	N	LYS	16	-11.114	11.053	64.105	1.00	45.98
ATOM	133	C	LYS	16	-7.777	23.045	64.773	1.00	35.14
ATOM	134	O	LYS	16	-7.110	22.133	64.107	1.00	34.70
ATOM	135	N	LYS	15	-7.158	23.865	64.114	1.00	33.19
ATOM	136	CA	LYS	17	-8.118	23.712	64.313	1.00	32.18
ATOM	137	CB	LYS	17	-9.110	24.411	71.115	1.00	34.01
ATOM	138	CG	LYS	17	-8.111	24.158	71.180	1.00	36.17
ATOM	139	CD	LYS	17	-10.618	22.810	71.513	1.00	35.59
ATOM	140	CE	LYS	17	-4.118	23.004	71.115	1.00	41.86
ATOM	141	N	LYS	17	-5.115	21.015	71.104	1.00	42.95
ATOM	142	C	LYS	17	-4.115	23.804	64.118	1.00	30.45
ATOM	143	O	LYS	17	-4.115	24.101	64.115	1.00	29.95
ATOM	144	N	ARG	18	-4.119	23.141	64.113	1.00	28.24
ATOM	145	CA	ARG	18	-11.416	21.124	64.113	1.00	21.11
ATOM	146	CB	ARG	18	-11.084	22.843	64.141	1.00	26.93
ATOM	147	CG	ARG	18	-4.113	22.588	64.113	1.00	29.98
ATOM	148	CD	ARG	18	-11.014	21.018	64.115	1.00	31.56
ATOM	149	NE	ARG	18	-3.015	21.117	64.109	1.00	15.11
ATOM	150	CE	ARG	18	-3.474	32.673	64.137	1.00	34.92
ATOM	151	NH1	ARG	18	-3.694	33.671	64.180	1.00	14.93
ATOM	152	NH2	ARG	18	-3.461	32.191	64.115	1.00	33.10
ATOM	153	C	ARG	18	-2.119	26.319	64.112	1.00	26.09
ATOM	154	O	ARG	18	-1.415	26.337	64.182	1.00	27.27
ATOM	155	N	PHE	19	-2.183	23.546	64.145	1.00	24.65
ATOM	156	CA	PHE	19	-3.413	24.601	64.110	1.00	21.83
ATOM	157	CB	PHE	19	-1.413	23.213	64.186	1.00	22.18
ATOM	158	C	PHE	19	-2.114	23.176	64.147	1.00	21.17
ATOM	159	CD1	PHE	19	-1.813	23.004	64.183	1.00	21.71
ATOM	160	CD2	PHE	19	-3.779	23.275	64.249	1.00	21.30
ATOM	161	CE1	PHE	19	-2.614	21.036	64.751	1.00	20.83
ATOM	162	CE2	PHE	19	-4.581	22.159	64.093	1.00	20.74
ATOM	163	CE	PHE	19	-3.915	22.137	64.837	1.00	22.45
ATOM	164	C	PHE	19	0.075	34.985	64.673	1.00	20.64
ATOM	165	O	PHE	19	-0.111	34.687	64.763	1.00	10.34
ATOM	166	N	ALA	20	1.111	29.509	64.894	1.00	17.95
ATOM	167	CA	ALA	20	2.411	34.901	64.994	1.00	18.49
ATOM	168	CB	ALA	20	3.671	25.051	64.808	1.00	16.35
ATOM	169	C	ALA	20	2.671	24.705	64.959	1.00	17.94
ATOM	170	O	ALA	20	2.511	23.115	64.253	1.00	13.11
ATOM	171	N	THR	21	3.015	34.126	64.750	1.00	19.33
ATOM	172	CA	THR	21	3.111	34.211	64.654	1.00	21.03
ATOM	173	CB	THR	21	2.215	34.215	64.599	1.00	22.47
ATOM	174	OH1	THR	21	1.911	33.766	60.101	1.00	25.11
ATOM	175	OH2	THR	21	2.511	33.191	64.449	1.00	28.47
ATOM	176	C	THR	21	4.117	34.101	64.611	1.00	18.87
ATOM	177	O	THR	21	5.019	34.841	60.095	1.00	19.11
ATOM	178	N	ILE	22	5.111	31.757	64.387	1.00	17.31
ATOM	179	CA	ILE	22	6.671	33.151	64.803	1.00	16.77
ATOM	180	CB	ILE	22	7.111	33.651	64.915	1.00	16.67
ATOM	181	CG	ILE	22	8.111	31.141	64.179	1.00	14.11
ATOM	182	CD	ILE	22	9.111	31.131	64.141	1.00	18.11

ATOM	183	CD1	ILE	22	9.959	24.160	60.653	1.00	19.13
ATOM	184	C	ILE	22	7.068	22.314	57.617	1.00	16.27
ATOM	185	O	ILE	22	6.592	21.194	57.456	1.00	16.81
ATOM	186	N	THR	23	7.911	22.868	56.754	1.00	15.76
ATOM	187	CA	THR	23	8.557	22.119	55.586	1.00	19.36
ATOM	188	CB	THR	23	8.756	23.061	54.409	1.00	18.75
ATOM	189	OG1	THR	23	19.010	23.697	54.69	1.00	23.35
ATOM	190	CG2	THR	23	7.699	24.155	54.216	1.00	23.15
ATOM	191	C	THR	23	9.564	21.285	56.014	1.00	18.45
ATOM	192	O	THR	23	19.274	21.643	56.954	1.00	18.13
ATOM	193	N	ALA	24	9.772	20.155	55.345	1.00	17.71
ATOM	194	CA	ALA	24	10.697	19.276	55.633	1.00	16.51
ATOM	195	CP	ALA	24	10.575	18.345	56.796	1.00	16.75
ATOM	196	C	ALA	24	11.132	18.483	54.358	1.00	15.72
ATOM	197	O	ALA	24	10.181	18.183	53.634	1.00	13.61
ATOM	198	N	TYR	25	12.383	18.146	54.079	1.00	15.44
ATOM	199	CA	TYR	25	12.717	17.420	52.859	1.00	15.30
ATOM	200	CB	TYR	25	13.765	18.389	51.730	1.00	16.75
ATOM	201	CG	TYR	25	12.454	19.691	51.129	1.00	19.07
ATOM	202	CD1	TYR	25	12.914	20.822	52.401	1.00	17.11
ATOM	203	CE1	TYR	25	12.140	22.076	52.177	1.00	23.53
ATOM	204	CH2	TYR	25	11.133	19.888	51.629	1.00	17.14
ATOM	205	CE2	TYR	25	10.546	21.010	50.999	1.00	21.65
ATOM	206	CZ	TYR	25	11.644	22.114	51.677	1.00	22.44
ATOM	207	CH	TYR	25	10.147	23.300	51.666	1.00	25.31
ATOM	208	C	TYR	25	13.583	16.159	53.067	1.00	17.26
ATOM	209	O	TYR	25	14.127	15.827	54.694	1.00	18.21
ATOM	210	N	ARG	26	14.161	16.011	54.720	1.00	19.59
ATOM	211	CA	ARG	26	13.111	15.059	54.634	1.00	18.04
ATOM	212	CB	ARG	26	16.511	15.686	54.453	1.00	14.69
ATOM	213	CG	ARG	26	16.850	16.731	55.107	1.00	16.64
ATOM	214	CM1	ARG	26	17.600	18.191	56.679	1.00	17.13
ATOM	215	CM2	ARG	26	16.829	17.939	55.143	1.00	14.58
ATOM	216	C	ARG	26	14.967	14.416	55.981	1.00	16.01
ATOM	217	O	ARG	26	14.183	14.888	56.811	1.00	16.69
ATOM	218	N	PRO	27	15.719	11.183	56.114	1.00	13.50
ATOM	219	CA	PRO	27	15.660	12.615	57.471	1.00	15.85
ATOM	220	CB	PRO	27	16.159	11.412	57.409	1.00	16.76
ATOM	221	CG	PRO	27	16.777	10.695	56.72	1.00	17.84
ATOM	222	CD1	PRO	27	15.871	9.703	59.159	1.00	17.06
ATOM	223	CE1	PRO	27	16.653	9.046	60.553	1.00	18.09
ATOM	224	CD2	PRO	27	17.873	10.905	59.546	1.00	14.28
ATOM	225	CE2	PRO	27	18.063	10.311	60.743	1.00	20.21
ATOM	226	CZ	PRO	27	17.163	9.560	61.151	1.00	20.97
ATOM	227	OH	PRO	27	17.368	8.601	62.343	1.00	21.54
ATOM	228	C	TYR	27	16.056	13.442	58.671	1.00	15.76
ATOM	229	O	TYR	27	15.338	13.144	59.670	1.00	16.46
ATOM	230	N	SER	28	17.126	14.121	58.560	1.00	16.97
ATOM	231	CA	SER	28	17.765	14.943	59.630	1.00	17.00
ATOM	232	CB	SER	28	19.034	15.643	59.146	1.00	19.12
ATOM	233	OG	SER	28	20.029	14.611	58.842	1.00	22.00
ATOM	234	C	SER	28	16.796	15.957	60.323	1.00	17.33
ATOM	235	O	SER	28	16.485	15.905	61.423	1.00	16.02
ATOM	236	N	PRO	29	16.307	16.841	54.403	1.00	15.80
ATOM	237	CA	PRO	29	15.982	17.864	54.963	1.00	16.28
ATOM	238	CB	PRO	29	15.181	19.035	54.001	1.00	14.20
ATOM	239	CG	PRO	29	16.321	19.968	54.001	1.00	15.71
ATOM	240	CD1	PRO	29	17.354	19.311	54.975	1.00	14.27
ATOM	241	CD2	PRO	29	16.171	21.008	53.946	1.00	13.42
ATOM	242	CE1	PRO	29	18.473	20.334	54.681	1.00	15.73
ATOM	243	CE2	PRO	29	17.433	21.994	53.967	1.00	17.20
ATOM	244	C	PRO	29	18.483	21.747	58.931	1.00	14.83
ATOM	245	O	PRO	29	14.943	17.334	60.393	1.00	15.83
ATOM	246	O	PRO	29	13.161	17.636	61.393	1.00	16.89
ATOM	247	N	ALA	30	13.531	16.116	52.613	1.00	16.16
ATOM	248	CA	ALA	30	12.154	15.718	59.962	1.00	17.31
ATOM	249	CB	ALA	30	11.867	14.549	58.923	1.00	16.54
ATOM	250	C	ALA	30	12.343	15.144	61.357	1.00	17.36
ATOM	251	O	ALA	30	11.491	15.171	62.155	1.00	16.43
ATOM	252	N	LEU	31	13.481	14.187	61.634	1.00	16.13
ATOM	253	CA	LEU	31	13.131	13.915	62.915	1.00	17.67
ATOM	254	CB	LEU	31	15.962	13.963	62.852	1.00	18.73
ATOM	255	CG	LEU	31	15.491	12.366	64.146	1.00	24.29
ATOM	256	CD	LEU	31	14.635	11.203	64.469	1.00	27.99
ATOM	257	CE	LEU	31	16.308	10.248	65.425	1.00	30.33
ATOM	258	CH	LEU	31	15.114	10.713	66.667	1.00	30.26
ATOM	259	C	LEU	31	14.869	14.833	64.059	1.00	17.13

ATOM	260	O	LYS	31	13.250	14.608	65.147	1.00	18.34
ATOM	261	N	LEU	32	14.468	15.941	62.790	1.00	18.82
ATOM	262	CA	LEU	32	14.631	17.019	64.756	1.00	18.15
ATOM	263	CB	LEU	32	15.549	18.097	64.171	1.00	18.24
ATOM	264	CG	LEU	32	16.070	19.200	65.113	1.00	18.88
ATOM	265	CD1	LEU	32	17.356	19.769	64.556	1.00	18.20
ATOM	266	CD2	LEU	32	15.008	20.292	65.280	1.00	18.78
ATOM	267	O	LEU	32	13.272	17.620	65.103	1.00	18.02
ATOM	268	O	LEU	32	12.963	17.847	66.272	1.00	18.18
ATOM	269	N	PRO	33	12.462	17.885	64.061	1.00	17.54
ATOM	270	CA	PRO	33	11.144	18.473	64.316	1.00	18.11
ATOM	271	CB	PRO	33	10.451	18.832	62.995	1.00	18.51
ATOM	272	CG	PRO	33	11.255	19.784	62.095	1.00	14.93
ATOM	273	CD1	PRO	33	12.113	20.689	62.610	1.00	14.65
ATOM	274	CD2	PRO	33	11.092	19.657	60.716	1.00	13.00
ATOM	275	CE1	PRO	33	12.832	21.580	61.764	1.00	15.96
ATOM	276	CE2	PRO	33	11.783	20.510	59.661	1.00	9.75
ATOM	277	CZ	PRO	33	12.613	21.461	60.769	1.00	14.53
ATOM	278	O	PRO	33	10.233	17.563	65.093	1.00	18.11
ATOM	279	O	PRO	33	9.552	17.882	66.048	1.00	18.51
ATOM	280	N	ALA	14	10.146	16.341	64.866	1.00	18.42
ATOM	281	CA	ALA	14	9.335	15.211	65.030	1.00	19.46
ATOM	282	CB	ALA	14	9.572	13.818	64.623	1.00	20.04
ATOM	283	O	ALA	14	8.628	15.008	66.099	1.00	20.61
ATOM	284	O	ALA	14	8.977	15.300	65.675	1.00	19.41
ATOM	285	N	ASP	15	11.125	15.701	65.054	1.00	21.13
ATOM	286	CA	ASP	15	11.574	14.312	68.449	1.00	24.53
ATOM	287	CB	ASP	15	11.098	14.738	67.505	1.00	25.01
ATOM	288	CG	ASP	15	10.502	13.424	67.989	1.00	27.07
ATOM	289	CD1	ASP	15	12.641	12.519	65.898	1.00	28.23
ATOM	290	CD2	ASP	15	14.720	13.281	65.694	1.00	28.18
ATOM	291	O	ASP	15	11.156	16.111	69.124	1.00	29.50
ATOM	292	O	ASP	15	11.086	16.624	70.545	1.00	24.71
ATOM	293	N	GLU	16	10.872	12.284	68.700	1.00	24.53
ATOM	294	CA	GLU	16	10.455	18.469	69.464	1.00	23.99
ATOM	295	CB	GLU	16	11.029	19.743	68.841	1.00	25.45
ATOM	296	CS	GLU	16	12.555	19.616	68.960	1.00	25.81
ATOM	297	CD	GLU	16	11.605	19.710	70.189	1.00	26.68
ATOM	298	CE1	GLU	16	12.285	20.315	71.180	1.00	23.68
ATOM	299	CE2	GLU	16	13.593	19.012	70.637	1.00	27.91
ATOM	300	O	GLU	16	8.937	18.518	69.553	1.00	23.45
ATOM	301	O	GLU	16	8.421	19.532	70.192	1.00	23.61
ATOM	302	N	GLY	17	8.221	17.612	68.908	1.00	22.97
ATOM	303	CA	GLY	17	6.765	17.711	68.955	1.00	22.54
ATOM	304	O	GLY	17	6.046	18.447	67.796	1.00	19.72
ATOM	305	O	GLY	17	4.902	18.741	67.645	1.00	21.78
ATOM	306	N	LEU	18	6.873	18.755	66.765	1.00	19.44
ATOM	307	CA	LEU	18	6.365	19.416	65.969	1.00	19.71
ATOM	308	CB	LEU	18	7.459	20.281	64.952	1.00	20.11
ATOM	309	CG	LEU	18	7.131	21.491	64.458	1.00	22.63
ATOM	310	CD1	LEU	18	8.352	22.238	63.739	1.00	20.65
ATOM	311	CD2	LEU	18	5.918	21.714	63.548	1.00	20.80
ATOM	312	C	LEU	18	6.057	18.222	64.664	1.00	23.60
ATOM	313	O	LEU	18	6.938	17.741	63.839	1.00	18.40
ATOM	314	N	ASN	19	4.807	17.762	64.720	1.00	20.63
ATOM	315	CA	ASN	19	4.355	16.513	64.999	1.00	21.02
ATOM	316	CB	ASN	19	3.489	15.709	64.924	1.00	24.31
ATOM	317	CG	ASN	19	4.108	15.180	66.281	1.00	28.17
ATOM	318	GD1	ASN	19	5.334	15.152	66.377	1.00	28.10
ATOM	319	GD2	ASN	19	3.321	15.127	67.533	1.00	28.42
ATOM	320	O	ASN	19	3.593	16.766	62.096	1.00	19.10
ATOM	321	O	ASN	19	2.651	16.137	62.024	1.00	18.89
ATOM	322	N	VAL	20	3.648	17.661	62.103	1.00	18.10
ATOM	323	CA	VAL	20	3.560	18.121	60.863	1.00	18.40
ATOM	324	CB	VAL	20	1.792	19.113	61.656	1.00	18.13
ATOM	325	CG1	VAL	20	1.113	18.490	59.726	1.00	18.10
ATOM	326	CG2	VAL	20	2.801	18.553	62.060	1.00	18.10
ATOM	327	O	VAL	20	2.867	18.785	59.886	1.00	18.10
ATOM	328	O	VAL	20	4.453	18.710	60.040	1.00	14.10
ATOM	329	N	MET	21	4.189	17.606	58.869	1.00	16.70
ATOM	330	CA	MET	21	5.271	18.398	57.890	1.00	16.10
ATOM	331	CB	MET	21	6.135	17.156	58.080	1.00	16.90
ATOM	332	CG	MET	21	7.251	17.664	58.390	1.00	16.10
ATOM	333	SD	MET	21	6.564	16.750	59.719	1.00	19.10
ATOM	334	CE	MET	21	7.943	15.840	61.366	1.00	21.10
ATOM	335	O	MET	21	4.103	18.040	58.110	1.00	18.10
ATOM	336	O	MET	21	4.110	17.403	58.100	1.00	18.10

ATOM	337	N	LEU	42	5.276	19.300	55.655	1.00	18.90
ATOM	338	CA	LEU	42	4.907	19.383	54.265	1.00	20.11
ATOM	339	CB	LEU	42	4.178	20.707	54.016	1.00	22.93
ATOM	340	CG	LEU	42	3.677	21.143	52.630	1.00	26.24
ATOM	341	CD1	LEU	42	4.777	21.879	51.907	1.00	29.83
ATOM	342	CD2	LEU	42	3.169	18.955	51.818	1.00	24.10
ATOM	343	C	LEU	42	6.120	18.258	51.744	1.00	19.47
ATOM	344	O	LEU	42	7.100	18.978	51.498	1.00	17.61
ATOM	345	N	VAL	43	6.045	18.315	52.414	1.00	19.14
ATOM	346	CA	VAL	43	7.102	18.116	51.419	1.00	18.25
ATOM	347	CB	VAL	43	7.352	18.624	51.116	1.00	19.90
ATOM	348	CG1	VAL	43	8.397	18.461	50.641	1.00	19.97
ATOM	349	CG2	VAL	43	7.752	18.895	50.295	1.00	19.98
ATOM	350	C	VAL	43	6.517	18.800	50.208	1.00	18.97
ATOM	351	O	VAL	43	5.815	18.187	49.408	1.00	17.37
ATOM	352	N	GLY	44	6.786	20.102	50.089	1.00	17.93
ATOM	353	CA	GLY	44	6.248	20.865	48.980	1.00	20.64
ATOM	354	C	GLY	44	7.226	21.095	47.884	1.00	18.04
ATOM	355	O	GLY	44	8.450	21.872	46.602	1.00	17.40
ATOM	356	N	ASP	45	6.735	21.117	46.718	1.00	17.61
ATOM	357	CA	ASP	45	7.525	21.588	45.157	1.00	20.73
ATOM	358	CB	ASP	45	6.764	21.926	44.214	1.00	21.28
ATOM	359	CG	ASP	45	5.674	21.996	44.217	1.00	27.73
ATOM	360	OD1	ASP	45	5.672	20.791	45.118	1.00	22.76
ATOM	361	OD2	ASP	45	4.858	21.074	45.445	1.00	21.28
ATOM	362	C	ASP	45	8.482	21.687	45.776	1.00	18.43
ATOM	363	O	ASP	45	9.241	21.374	44.887	1.00	18.95
ATOM	364	N	THR	46	8.408	21.685	46.848	1.00	21.24
ATOM	365	CA	THR	46	9.381	21.772	47.111	1.00	19.73
ATOM	366	CB	THR	46	8.944	21.478	46.871	1.00	18.58
ATOM	367	OG	THR	46	7.146	24.513	46.618	1.00	21.11
ATOM	368	C	THR	46	10.705	21.206	47.248	1.00	19.77
ATOM	369	O	THR	46	11.686	21.841	47.115	1.00	20.36
ATOM	370	N	LEU	47	10.810	21.884	47.767	1.00	18.59
ATOM	371	CA	LEU	47	12.119	21.217	47.774	1.00	19.25
ATOM	372	CB	LEU	47	11.470	21.717	47.661	1.00	18.90
ATOM	373	CG	LEU	47	11.308	18.813	48.117	1.00	17.40
ATOM	374	CD1	LEU	47	12.309	18.117	48.140	1.00	15.15
ATOM	375	CD2	LEU	47	10.822	18.711	48.111	1.00	16.78
ATOM	376	C	LEU	47	12.852	21.167	48.063	1.00	17.82
ATOM	377	O	LEU	47	14.687	21.119	48.014	1.00	17.89
ATOM	378	N	GLY	48	12.100	21.741	48.801	1.00	17.81
ATOM	379	CA	GLY	48	12.720	21.817	48.718	1.00	16.18
ATOM	380	C	GLY	48	13.659	24.186	48.784	1.00	18.66
ATOM	381	O	GLY	48	14.644	24.211	48.659	1.00	17.89
ATOM	382	N	MET	49	13.196	25.188	48.691	1.00	19.84
ATOM	383	CA	MET	49	14.171	26.830	48.465	1.00	20.49
ATOM	384	CB	MET	49	13.163	23.511	48.100	1.00	27.46
ATOM	385	CG	MET	49	12.111	21.719	48.941	1.00	29.97
ATOM	386	SD	MET	49	11.129	28.069	48.266	1.00	31.44
ATOM	387	CE	MET	49	12.637	30.520	48.909	1.00	31.13
ATOM	388	C	MET	49	15.160	26.151	48.011	1.00	20.49
ATOM	389	O	MET	49	16.370	28.236	48.837	1.00	21.08
ATOM	390	N	THR	50	14.641	26.846	48.203	1.00	21.41
ATOM	391	CA	THR	50	15.442	26.770	48.337	1.00	21.66
ATOM	392	CB	THR	50	14.636	26.608	48.653	1.00	21.24
ATOM	393	OG1	THR	50	15.441	27.521	50.301	1.00	31.31
ATOM	394	OG2	THR	50	13.719	24.381	48.600	1.00	27.30
ATOM	395	C	THR	50	16.431	21.493	48.362	1.00	21.30
ATOM	396	O	THR	50	17.511	21.561	48.364	1.00	21.10
ATOM	397	N	VAL	51	15.973	23.391	47.787	1.00	18.20
ATOM	398	CA	VAL	51	16.811	21.203	47.719	1.00	18.81
ATOM	399	CB	VAL	51	16.887	21.618	47.983	1.00	18.72
ATOM	400	CG1	VAL	51	16.809	18.490	48.900	1.00	21.01
ATOM	401	CG2	VAL	51	15.515	21.983	48.355	1.00	21.82
ATOM	402	C	VAL	51	17.538	21.138	48.384	1.00	18.45
ATOM	403	O	VAL	51	18.715	21.867	48.351	1.00	18.85
ATOM	404	N	GLN	52	16.763	22.087	48.286	1.00	18.47
ATOM	405	CA	GLN	52	17.481	21.407	48.963	1.00	18.16
ATOM	406	CB	GLN	52	16.317	21.117	48.976	1.00	17.63
ATOM	407	CG	GLN	52	15.929	20.127	48.482	1.00	18.79
ATOM	408	CD	GLN	52	14.477	19.771	48.593	1.00	18.77
ATOM	409	OE1	GLN	52	14.611	20.952	48.673	1.00	18.77
ATOM	410	NEU	GLN	52	14.084	18.504	48.600	1.00	11.48
ATOM	411	C	GLN	52	18.973	23.196	48.411	1.00	14.00
ATOM	412	O	GLN	52	18.699	22.652	48.409	1.00	18.77
ATOM	413	N	GLY	53	13.114	24.334	48.881	1.00	18.16

ATOM	414	CA	GLY	53	18.248	25.549	43.361	1.00	20.83
ATOM	415	C	GLY	53	17.685	26.146	42.085	1.00	22.32
ATOM	416	O	GLY	53	18.387	26.877	41.287	1.00	24.49
ATOM	417	N	HIS	54	16.429	25.849	41.771	1.00	22.93
ATOM	418	CA	HIS	54	15.800	26.397	40.575	1.00	24.27
ATOM	419	CB	HIS	54	14.724	25.478	40.049	1.00	23.64
ATOM	420	CG	HIS	54	15.764	24.115	39.568	1.00	25.03
ATOM	421	CD	HIS	54	15.030	22.860	39.984	1.00	25.14
ATOM	422	ND1	HIS	54	16.171	24.029	38.538	1.00	25.82
ATOM	423	CE1	HIS	54	16.481	22.759	38.245	1.00	26.94
ATOM	424	NF2	HIS	54	15.800	22.029	39.208	1.00	26.01
ATOM	425	C	HIS	54	15.176	27.748	40.914	1.00	25.18
ATOM	426	O	HIS	54	14.947	28.058	42.086	1.00	24.14
ATOM	427	N	ASP	55	14.898	28.545	39.864	1.00	25.82
ATOM	428	CA	ASP	55	14.502	29.849	40.062	1.00	27.59
ATOM	429	CB	ASP	55	14.550	30.719	38.815	1.00	30.40
ATOM	430	CG	ASP	55	13.786	30.212	37.600	1.00	33.05
ATOM	431	OD1	ASP	55	12.535	30.266	37.622	1.00	36.66
ATOM	432	OD2	ASP	55	14.428	29.864	36.618	1.00	37.40
ATOM	433	C	ASP	55	12.801	29.378	40.155	1.00	36.78
ATOM	434	O	ASP	55	12.174	30.155	40.151	1.00	37.97
ATOM	435	N	THR	56	12.021	28.401	40.669	1.00	31.17
ATOM	436	CA	THR	56	10.881	28.036	40.121	1.00	31.47
ATOM	437	CB	THR	56	10.008	28.605	39.084	1.00	31.25
ATOM	438	CG	THR	56	10.232	27.408	38.684	1.00	31.31
ATOM	439	C	THR	56	10.582	26.916	40.191	1.00	30.62
ATOM	440	O	THR	56	11.329	26.155	40.901	1.00	31.18
ATOM	441	N	THR	57	9.374	26.015	41.584	1.00	19.31
ATOM	442	CA	THR	57	8.697	25.772	41.543	1.00	18.11
ATOM	443	CB	THR	57	7.869	25.335	42.579	1.00	19.53
ATOM	444	CG1	THR	57	6.884	25.890	41.972	1.00	20.57
ATOM	445	CG2	THR	57	8.249	26.179	43.172	1.00	18.67
ATOM	446	C	THR	57	8.160	24.589	40.396	1.00	18.44
ATOM	447	O	THR	57	8.412	23.113	40.587	1.00	18.74
ATOM	448	N	LEU	58	8.341	24.000	42.213	1.00	20.59
ATOM	449	CA	LEU	58	7.168	24.149	40.662	1.00	20.44
ATOM	450	CB	LEU	58	7.720	25.029	38.814	1.00	20.32
ATOM	451	CG	LEU	58	8.142	26.015	38.785	1.00	23.24
ATOM	452	CD1	LEU	58	8.826	27.242	37.578	1.00	25.30
ATOM	453	CD2	LEU	58	8.195	26.393	35.149	1.00	23.22
ATOM	454	C	LEU	58	8.687	22.911	37.698	1.00	21.67
ATOM	455	O	LEU	58	8.120	21.868	37.166	1.00	19.23
ATOM	456	N	PRO	59	10.325	23.015	37.731	1.00	20.12
ATOM	457	CD	PRO	59	10.345	24.211	37.965	1.00	23.05
ATOM	458	CA	PRO	59	10.362	21.860	37.392	1.00	21.47
ATOM	459	CB	PRO	59	12.186	22.433	37.427	1.00	21.53
ATOM	460	CG	PRO	59	12.167	23.617	38.135	1.00	25.29
ATOM	461	C	PRO	59	10.678	20.655	38.137	1.00	16.05
ATOM	462	O	PRO	59	11.341	19.544	37.946	1.00	18.36
ATOM	463	N	VAL	60	10.100	20.865	39.486	1.00	17.35
ATOM	464	CA	VAL	60	9.382	19.760	40.423	1.00	16.87
ATOM	465	CB	VAL	60	9.730	20.273	41.785	1.00	15.81
ATOM	466	CG1	VAL	60	9.646	19.019	42.709	1.00	15.77
ATOM	467	CG2	VAL	60	10.536	21.201	42.439	1.00	15.43
ATOM	468	C	VAL	60	8.894	18.740	39.852	1.00	17.60
ATOM	469	O	VAL	60	7.803	19.019	39.409	1.00	16.20
ATOM	470	N	THR	61	9.167	17.465	39.976	1.00	18.26
ATOM	471	CA	THR	61	8.783	16.420	38.752	1.00	20.57
ATOM	472	CB	THR	61	9.124	15.540	38.252	1.00	24.68
ATOM	473	CG1	THR	61	9.451	16.419	37.145	1.00	30.75
ATOM	474	CG2	THR	61	8.761	14.415	37.766	1.00	36.08
ATOM	475	C	THR	61	7.968	15.507	40.487	1.00	17.77
ATOM	476	O	THR	61	8.403	15.581	41.609	1.00	18.22
ATOM	477	N	VAL	62	6.914	14.661	40.116	1.00	15.87
ATOM	478	CA	VAL	62	6.660	13.734	41.177	1.00	15.01
ATOM	479	CB	VAL	62	5.164	12.834	40.542	1.00	14.14
ATOM	480	CG1	VAL	62	4.831	11.741	41.515	1.00	13.68
ATOM	481	CG2	VAL	62	4.070	13.696	40.116	1.00	13.51
ATOM	482	C	VAL	62	7.323	12.837	41.724	1.00	15.22
ATOM	483	O	VAL	62	7.350	12.527	41.078	1.00	16.66
ATOM	484	N	ALA	63	6.483	12.417	43.065	1.00	15.74
ATOM	485	CA	ALA	63	9.345	11.591	41.467	1.00	14.79
ATOM	486	CB	ALA	63	10.383	11.167	40.319	1.00	16.22
ATOM	487	C	ALA	63	10.230	12.264	41.562	1.00	13.95
ATOM	488	O	ALA	63	10.579	11.653	43.573	1.00	13.97
ATOM	489	N	ASP	64	10.500	13.551	42.888	1.00	14.13
ATOM	490	CA	ASP	64	11.258	14.714	40.817	1.00	14.18

ATCM	491	CB	ASP	64	11.507	15.762	42.890	1.00	13.98
ATCM	492	CG	ASP	64	12.409	15.849	41.605	1.00	14.58
ATCM	493	OD1	ASP	64	13.170	14.975	41.351	1.00	15.44
ATCM	494	OD2	ASP	64	12.093	16.829	40.845	1.00	17.47
ATCM	495	C	ASP	64	10.492	14.355	44.679	1.00	14.42
ATCM	496	O	ASP	64	11.072	14.115	45.740	1.00	12.00
ATCM	497	N	ILE	65	9.194	14.610	44.618	1.00	12.48
ATCM	498	CA	ILE	65	7.874	14.505	45.875	1.00	13.80
ATCM	499	CB	ILE	65	7.899	15.092	45.554	1.00	11.05
ATCM	500	CG2	ILE	65	7.642	14.958	46.777	1.00	13.85
ATCM	501	CG1	ILE	65	7.822	16.488	44.929	1.00	14.20
ATCM	502	OD1	ILE	65	7.176	17.617	45.914	1.00	13.30
ATCM	503	C	ILE	65	7.582	17.359	46.551	1.00	12.45
ATCM	504	O	ILE	65	6.102	17.154	47.269	1.00	13.05
ATCM	505	N	ALA	66	6.252	17.377	45.755	1.00	12.41
ATCM	506	CA	ALA	66	6.117	16.957	46.554	1.00	9.78
ATCM	507	CB	ALA	66	7.258	16.917	45.151	1.00	9.59
ATCM	508	C	ALA	66	5.518	16.780	47.077	1.00	11.07
ATCM	509	O	ALA	66	5.519	16.866	46.137	1.00	11.14
ATCM	510	N	TYL	67	10.819	11.117	48.443	1.00	11.47
ATCM	511	CA	TYL	67	11.944	10.756	47.641	1.00	17.97
ATCM	512	CB	TYL	67	11.977	11.117	48.067	1.00	11.65
ATCM	513	CG	TYL	67	14.154	11.177	46.559	1.00	13.46
ATCM	514	OD1	TYL	67	11.116	10.846	46.647	1.00	15.65
ATCM	515	OD1	TYL	67	14.441	10.141	47.037	1.00	15.17
ATCM	516	OD2	TYL	67	13.058	11.521	46.949	1.00	16.14
ATCM	517	CG2	TYL	67	14.111	11.517	47.149	1.00	13.50
ATCM	518	CG1	TYL	67	17.079	11.146	47.451	1.00	16.25
ATCM	519	OH	TYL	67	18.111	11.146	47.874	1.00	16.11
ATCM	520	C	TYL	67	13.094	11.487	48.414	1.00	12.63
ATCM	521	O	TYL	67	12.501	10.878	49.469	1.00	12.17
ATCM	522	N	HIS	68	11.711	11.757	48.451	1.00	14.09
ATCM	523	CA	HIS	68	11.814	13.146	49.089	1.00	13.74
ATCM	524	CB	HIS	68	11.711	13.095	49.318	1.00	12.95
ATCM	525	CG	HIS	68	13.956	11.781	48.614	1.00	13.39
ATCM	526	OD2	HIS	68	13.146	11.855	47.111	1.00	13.59
ATCM	527	OD1	HIS	68	14.113	11.794	49.181	1.00	11.37
ATCM	528	OD1	HIS	68	11.616	16.118	48.460	1.00	13.57
ATCM	529	NEH	HIS	68	14.461	16.117	47.111	1.00	14.56
ATCM	530	C	HIS	68	10.571	11.147	50.701	1.00	14.18
ATCM	531	O	HIS	68	11.001	11.181	51.929	1.00	12.96
ATCM	532	N	THR	69	9.051	12.151	50.137	1.00	13.76
ATCM	533	CA	THR	69	8.177	11.119	51.131	1.00	12.84
ATCM	534	CB	THR	69	7.191	11.819	50.321	1.00	13.67
ATCM	535	OD1	THR	69	6.096	12.064	49.734	1.00	13.10
ATCM	536	CG2	THR	69	8.190	13.159	51.150	1.00	13.21
ATCM	537	C	THR	69	9.080	10.957	51.877	1.00	12.94
ATCM	538	O	THR	69	8.891	10.837	52.489	1.00	13.96
ATCM	539	N	ALA	70	9.716	10.647	51.169	1.00	12.91
ATCM	540	CA	ALA	70	10.556	8.840	51.734	1.00	12.85
ATCM	541	CB	ALA	70	10.501	7.954	50.747	1.00	16.07
ATCM	542	C	ALA	70	11.181	9.166	52.821	1.00	17.23
ATCM	543	O	ALA	70	11.278	8.944	51.956	1.00	12.96
ATCM	544	N	ALA	71	12.117	10.158	52.657	1.00	13.50
ATCM	545	CA	ALA	71	13.174	10.517	52.617	1.00	13.45
ATCM	546	CB	ALA	71	14.156	11.489	52.984	1.00	14.51
ATCM	547	C	ALA	71	12.555	11.115	53.145	1.00	14.10
ATCM	548	O	ALA	71	12.951	10.875	53.981	1.00	14.47
ATCM	549	N	VAL	72	11.941	11.859	54.627	1.00	14.55
ATCM	550	CA	VAL	72	10.891	11.683	55.715	1.00	15.46
ATCM	551	CB	VAL	72	9.836	11.687	55.177	1.00	16.14
ATCM	552	CG1	VAL	72	9.659	12.117	56.154	1.00	16.95
ATCM	553	CG2	VAL	72	10.150	14.555	54.555	1.00	16.34
ATCM	554	C	VAL	72	11.153	11.606	56.596	1.00	15.15
ATCM	555	O	VAL	72	10.183	11.665	57.813	1.00	14.69
ATCM	556	N	ARG	73	9.422	14.635	55.955	1.00	14.57
ATCM	557	CA	ARG	73	8.115	13.555	56.666	1.00	12.67
ATCM	558	CB	ARG	73	8.060	13.654	55.719	1.00	13.47
ATCM	559	CG	ARG	73	7.154	13.555	55.447	1.00	12.53
ATCM	560	OD	ARG	73	6.150	13.117	57.523	1.00	18.43
ATCM	561	NE	ARG	73	5.177	13.115	56.943	1.00	16.27
ATCM	562	OD	ARG	73	4.158	13.137	57.617	1.00	17.77
ATCM	563	NH1	ARG	73	4.179	13.571	58.944	1.00	13.94
ATCM	564	NH2	ARG	73	3.153	10.027	56.983	1.00	16.75
ATCM	565	C	ARG	73	9.148	11.767	57.549	1.00	13.87
ATCM	566	O	ARG	73	9.166	11.347	58.631	1.00	13.84
ATCM	567	N	ARG	74	10.963	8.524	57.957	1.00	16.13

ATOM	562	CA	AFG	74	11.926	7.738	57.823	1.00	13.53
ATOM	563	CB	AFG	74	13.155	7.405	56.975	1.00	15.28
ATOM	570	CG	AFG	74	12.860	6.543	55.752	1.00	16.51
ATOM	571	CD	AFG	74	14.133	5.937	55.155	1.00	17.73
ATOM	572	NE	AFG	74	12.895	5.241	53.838	1.00	20.87
ATOM	573	CZ	AFG	74	11.896	6.020	52.694	1.00	22.35
ATOM	574	NH1	AFG	74	14.127	7.325	52.688	1.00	23.90
ATOM	575	NH2	AFG	74	11.656	5.197	51.552	1.00	27.63
ATOM	576	O	AFG	74	12.355	8.513	59.651	1.00	16.15
ATOM	577	O	AFG	74	12.673	7.932	60.093	1.00	16.86
ATOM	578	N	GLY	75	12.359	9.834	58.913	1.00	16.67
ATOM	579	CA	GLY	75	12.753	10.681	60.055	1.00	17.65
ATOM	580	C	GLY	75	11.629	10.935	61.019	1.00	17.83
ATOM	581	O	GLY	75	11.865	11.107	62.215	1.00	17.96
ATOM	582	N	ALA	76	10.398	10.952	60.515	1.00	17.56
ATOM	583	CA	ALA	76	9.340	11.210	61.355	1.00	17.19
ATOM	584	CB	ALA	76	8.767	12.640	61.173	1.00	16.95
ATOM	585	C	ALA	76	8.108	10.229	61.004	1.00	18.56
ATOM	586	O	ALA	76	7.100	10.590	60.402	1.00	18.59
ATOM	587	N	PRO	77	9.759	9.973	61.119	1.00	20.34
ATOM	588	CA	PRO	77	9.361	8.507	60.400	1.00	21.85
ATOM	589	CB	PRO	77	7.177	7.998	61.318	1.00	20.04
ATOM	590	CG	PRO	77	7.944	6.698	61.502	1.00	22.05
ATOM	591	CG	PRO	77	8.149	7.303	63.002	1.00	25.39
ATOM	592	O	PRO	77	9.370	8.138	61.902	1.00	20.81
ATOM	593	O	PRO	77	4.929	7.462	61.408	1.00	20.60
ATOM	594	N	ASN	78	9.720	9.080	62.808	1.00	19.38
ATOM	595	CA	ASN	78	4.402	9.342	63.509	1.00	20.68
ATOM	596	CB	ASN	78	4.448	9.242	64.907	1.00	22.75
ATOM	597	CG	ASN	78	4.553	7.807	63.404	1.00	27.60
ATOM	598	CD1	ASN	78	3.771	6.951	65.000	1.00	31.16
ATOM	599	ND2	ASN	78	9.515	7.534	68.207	1.00	29.98
ATOM	600	C	ASN	78	3.821	10.693	62.900	1.00	19.38
ATOM	601	O	ASN	78	2.756	11.078	63.408	1.00	21.42
ATOM	602	N	CYS	79	4.507	11.389	62.101	1.00	17.77
ATOM	603	CA	CYS	79	4.040	12.313	61.686	1.00	19.13
ATOM	604	CB	CYS	79	3.210	13.552	61.100	1.00	19.73
ATOM	605	CG	CYS	79	2.847	13.375	59.300	1.00	24.05
ATOM	606	O	CYS	79	2.938	12.667	60.633	1.00	19.97
ATOM	607	O	CYS	79	2.735	11.652	59.201	1.00	17.94
ATOM	608	N	LEU	80	2.002	13.370	60.503	1.00	19.53
ATOM	609	CA	LEU	80	1.163	13.904	59.509	1.00	19.26
ATOM	610	CB	LEU	80	1.054	14.860	59.903	1.00	20.95
ATOM	611	CG	LEU	80	-3.984	15.325	58.909	1.00	21.27
ATOM	612	CD1	LEU	80	-1.670	13.957	58.306	1.00	22.20
ATOM	613	CD2	LEU	80	-2.093	16.195	59.488	1.00	22.16
ATOM	614	C	LEU	80	1.952	14.527	58.347	1.00	18.90
ATOM	615	O	LEU	80	2.442	15.655	58.509	1.00	18.11
ATOM	616	N	LEU	81	2.120	13.788	57.204	1.00	15.94
ATOM	617	CA	LEU	81	2.924	14.361	56.131	1.00	16.23
ATOM	618	CB	LEU	81	3.930	13.169	55.775	1.00	13.46
ATOM	619	CG	LEU	81	5.213	13.532	55.008	1.00	18.26
ATOM	620	CD1	LEU	81	6.102	12.304	54.937	1.00	18.43
ATOM	621	CD2	LEU	81	4.884	14.338	53.635	1.00	21.41
ATOM	622	C	LEU	81	2.090	14.069	54.936	1.00	16.36
ATOM	623	O	LEU	81	1.357	13.457	54.407	1.00	16.43
ATOM	624	N	LEU	81	2.183	15.944	54.008	1.00	16.31
ATOM	625	CA	LEU	81	1.457	16.466	53.177	1.00	17.33
ATOM	626	CB	LEU	81	0.827	17.659	51.766	1.00	19.25
ATOM	627	CG	LEU	81	-0.451	17.985	54.405	1.00	22.10
ATOM	628	CD1	LEU	81	-0.449	17.000	54.782	1.00	21.32
ATOM	629	CD2	LEU	81	-0.705	19.462	54.780	1.00	21.16
ATOM	630	C	LEU	82	2.458	16.957	52.332	1.00	17.87
ATOM	631	O	LEU	82	3.500	17.088	52.531	1.00	18.88
ATOM	632	N	ALA	83	2.093	16.053	51.171	1.00	16.83
ATOM	633	CA	ALA	83	2.992	16.114	50.733	1.00	16.39
ATOM	634	CB	ALA	83	3.408	14.720	49.807	1.00	16.49
ATOM	635	O	ALA	83	2.337	16.841	49.881	1.00	14.35
ATOM	636	O	ALA	83	1.180	16.579	49.554	1.00	14.15
ATOM	637	N	ASN	84	2.658	17.775	49.174	1.00	13.95
ATOM	638	CA	ASN	84	2.498	18.505	48.149	1.00	16.09
ATOM	639	CB	ASN	84	2.368	19.799	48.893	1.00	22.89
ATOM	640	CG	ASN	84	2.767	20.957	47.733	1.00	24.54
ATOM	641	CD1	ASN	84	1.548	21.195	47.755	1.00	30.38
ATOM	642	CD2	ASN	84	3.805	21.644	48.329	1.00	32.60
ATOM	643	C	ASN	84	2.519	19.710	48.851	1.00	16.15
ATOM	644	O	ASN	84	3.200	18.000	48.000	1.00	14.13

ATOM	645	N	LEU	85	1.535	17.967	44.998	1.00	15.10
ATOM	646	CA	LEU	85	1.539	17.381	43.667	1.00	15.19
ATOM	647	CB	LEU	85	0.127	17.043	43.167	1.00	16.96
ATOM	648	CG	LEU	85	-0.451	15.751	44.751	1.00	17.48
ATOM	649	CD1	LEU	85	-1.753	15.760	43.028	1.00	17.36
ATOM	650	CD2	LEU	85	0.574	14.639	41.604	1.00	17.58
ATOM	651	O	LEU	85	0.111	18.593	42.937	1.00	14.39
ATOM	652	O	LEU	85	1.563	19.694	42.024	1.00	15.37
ATOM	653	N	PHE	86	3.255	18.419	42.262	1.00	14.05
ATOM	654	CD	PHE	86	2.984	17.143	42.170	1.00	15.98
ATOM	655	CA	PHE	86	2.949	19.473	41.518	1.00	15.34
ATOM	656	CB	PHE	86	5.366	18.839	41.214	1.00	16.60
ATOM	657	CG	PHE	86	4.933	17.386	41.018	1.00	16.94
ATOM	658	O	PHE	86	3.249	19.970	40.255	1.00	17.90
ATOM	659	O	PHE	86	2.161	19.515	39.599	1.00	17.49
ATOM	660	N	HE	87	3.897	20.917	39.591	1.00	17.02
ATOM	661	CA	HE	87	3.366	21.509	38.571	1.00	18.00
ATOM	662	CB	HE	87	4.486	22.357	37.728	1.00	19.87
ATOM	663	CG	HE	87	4.113	22.906	36.583	1.00	19.63
ATOM	664	CD1	HE	87	3.215	23.719	36.129	1.00	19.99
ATOM	665	CD2	HE	87	4.193	22.568	35.765	1.00	20.71
ATOM	666	CE1	PHE	87	2.690	24.249	34.792	1.00	21.55
ATOM	667	CE2	PHE	87	4.367	21.035	34.012	1.00	20.03
ATOM	668	CZ	PHE	87	2.468	21.926	33.876	1.00	21.84
ATOM	669	O	PHE	87	2.171	20.467	32.573	1.00	17.52
ATOM	670	O	PHE	87	3.161	19.495	32.051	1.00	16.53
ATOM	671	N	MET	88	1.641	21.682	36.909	1.00	16.65
ATOM	672	CA	MET	88	0.981	19.816	35.937	1.00	18.63
ATOM	673	CB	MET	88	1.666	18.964	34.575	1.00	20.77
ATOM	674	CG	MET	88	0.767	19.578	33.413	1.00	22.54
ATOM	675	SD	MET	88	-0.593	20.732	33.216	1.00	21.14
ATOM	676	CE	MET	88	0.111	21.920	32.989	1.00	22.91
ATOM	677	O	MET	88	0.931	18.340	36.326	1.00	19.33
ATOM	678	O	MET	88	0.987	17.463	35.461	1.00	22.28
ATOM	679	N	ALA	89	0.822	18.063	37.619	1.00	17.87
ATOM	680	CA	ALA	89	0.749	16.895	34.686	1.00	17.24
ATOM	681	CB	ALA	89	1.609	16.506	32.333	1.00	18.47
ATOM	682	O	ALA	89	-0.791	16.285	33.379	1.00	16.36
ATOM	683	O	ALA	89	-0.976	15.164	32.916	1.00	17.43
ATOM	684	N	TYR	90	-1.624	17.219	38.145	1.00	16.10
ATOM	685	CA	TYR	90	-3.041	16.242	38.364	1.00	15.59
ATOM	686	CB	TYR	90	-3.452	17.310	38.790	1.00	14.68
ATOM	687	CG	TYR	90	-2.359	18.715	40.323	1.00	15.60
ATOM	688	CD1	TYR	90	-3.753	19.314	40.064	1.00	17.89
ATOM	689	CE1	TYR	90	-3.338	21.117	40.454	1.00	17.95
ATOM	690	CD2	TYR	90	-1.630	18.570	40.782	1.00	17.54
ATOM	691	CE2	TYR	90	-1.317	20.132	41.173	1.00	17.49
ATOM	692	CZ	TYR	90	-2.016	21.215	41.508	1.00	15.23
ATOM	693	OH	TYR	90	-1.543	22.470	41.494	1.00	19.18
ATOM	694	O	TYR	90	-3.435	17.656	37.322	1.00	15.82
ATOM	695	O	TYR	90	-4.437	13.225	37.628	1.00	17.20
ATOM	696	N	ALA	91	-3.412	17.628	36.079	1.00	16.74
ATOM	697	CA	ALA	91	-4.435	13.272	34.959	1.00	17.95
ATOM	698	CB	ALA	91	-5.177	18.262	33.731	1.00	18.13
ATOM	699	O	ALA	91	-5.125	17.611	34.631	1.00	17.59
ATOM	700	O	ALA	91	-6.139	18.230	34.010	1.00	16.63
ATOM	701	N	TRP	92	-5.330	16.317	35.015	1.00	16.91
ATOM	702	CA	TRP	92	-6.338	15.619	34.811	1.00	15.64
ATOM	703	CB	TRP	92	-6.411	14.689	33.566	1.00	17.31
ATOM	704	CG1	TRP	92	-5.413	13.562	33.654	1.00	15.34
ATOM	705	CG2	TRP	92	-6.469	15.438	32.322	1.00	15.98
ATOM	706	O	TRP	92	-6.313	14.710	32.601	1.00	16.55
ATOM	707	O	TRP	92	-6.357	14.364	32.311	1.00	17.17
ATOM	708	N	PRO	93	-8.410	14.339	32.234	1.00	16.42
ATOM	709	CD	PRO	93	-8.370	14.771	31.662	1.00	17.46
ATOM	710	CA	PRO	93	-8.368	13.470	31.447	1.00	15.13
ATOM	711	CB	PRO	93	-10.915	13.168	31.417	1.00	17.66
ATOM	712	CG	PRO	93	-10.519	14.164	30.756	1.00	16.77
ATOM	713	O	PRO	93	-7.696	12.210	31.411	1.00	16.69
ATOM	714	O	PRO	93	-7.316	11.877	30.309	1.00	15.79
ATOM	715	N	GLU	94	-7.589	11.517	31.277	1.00	16.39
ATOM	716	CA	GLU	94	-5.382	10.305	30.120	1.00	15.29
ATOM	717	CB	GLU	94	-8.948	9.791	29.189	1.00	15.57
ATOM	718	CG	GLU	94	-8.040	8.779	28.416	1.00	15.03
ATOM	719	GD	GLU	94	-7.968	8.709	27.714	1.00	16.86
ATOM	720	OE1	GLU	94	-6.968	7.666	26.839	1.00	14.96
ATOM	721	OE2	GLU	94	-8.965	8.299	26.167	1.00	16.11

ATOM	722	C	GLU	94	-5.418	10.492	36.497	1.00	17.89
ATOM	723	O	GLU	94	-4.846	9.658	37.194	1.00	16.77
ATOM	724	N	GLN	95	-4.806	11.573	36.029	1.00	15.33
ATOM	725	CA	GLN	95	-3.408	11.811	36.350	1.00	16.38
ATOM	726	CP	GLN	95	-2.845	12.931	35.491	1.00	18.34
ATOM	727	CL	GLN	95	-2.936	12.662	34.002	1.00	24.31
ATOM	728	CI	GLN	95	-2.414	13.826	33.189	1.00	29.32
ATOM	729	OH1	GLN	95	-1.215	14.943	33.061	1.00	31.33
ATOM	730	NH2	GLN	95	-3.347	14.606	32.632	1.00	31.32
ATOM	731	C	GLN	95	-3.232	12.144	37.817	1.00	13.33
ATOM	732	O	GLN	95	-2.245	11.743	38.422	1.00	14.18
ATOM	733	N	ALA	96	-4.173	12.886	38.393	1.00	12.39
ATOM	734	CA	ALA	96	-4.071	13.211	39.813	1.00	11.39
ATOM	735	CB	ALA	96	-5.229	14.111	40.243	1.00	10.37
ATOM	736	C	ALA	96	-4.090	11.911	40.611	1.00	12.30
ATOM	737	O	ALA	96	-3.311	11.743	41.349	1.00	11.30
ATOM	738	N	PHE	97	-4.970	10.973	40.236	1.00	12.32
ATOM	739	CA	PHE	97	-5.050	9.700	40.956	1.00	11.38
ATOM	740	CB	PHE	97	-6.072	8.741	40.332	1.00	11.33
ATOM	741	CG	PHE	97	-7.459	9.300	40.177	1.00	14.36
ATOM	742	CH1	PHE	97	-7.375	10.211	41.079	1.00	14.37
ATOM	743	CH2	PHE	97	-8.254	9.890	40.113	1.00	13.38
ATOM	744	CH3	PHE	97	-9.273	10.720	40.341	1.00	11.32
ATOM	745	CH4	PHE	97	-9.556	9.383	38.948	1.00	13.30
ATOM	746	CH5	PHE	97	-10.061	10.311	39.859	1.00	11.30
ATOM	747	C	PHE	97	-3.699	8.990	40.971	1.00	13.32
ATOM	748	O	PHE	97	-3.244	8.551	40.027	1.00	13.39
ATOM	749	N	GLU	98	-3.264	7.850	39.811	1.00	14.32
ATOM	750	CA	GLU	98	-1.786	6.153	39.768	1.00	16.35
ATOM	751	CB	GLU	98	-1.356	5.850	38.327	1.00	21.34
ATOM	752	CG	GLU	98	-0.745	5.064	38.268	1.00	26.33
ATOM	753	CH	GLU	98	-0.113	5.748	38.066	1.00	31.34
ATOM	754	OH1	GLU	98	-0.767	4.810	38.587	1.00	35.37
ATOM	755	OH2	GLU	98	0.472	5.706	40.187	1.00	34.36
ATOM	756	C	GLU	98	-0.660	6.888	40.480	1.00	14.38
ATOM	757	O	GLU	98	0.134	6.275	41.198	1.00	14.35
ATOM	758	N	ASN	99	-0.585	10.116	40.394	1.00	11.35
ATOM	759	CA	ASN	99	0.490	10.944	40.941	1.00	11.39
ATOM	760	CB	ASN	99	0.607	10.339	40.339	1.00	11.39
ATOM	761	CG	ASN	99	1.170	10.238	38.890	1.00	12.39
ATOM	762	CH1	ASN	99	2.019	11.354	38.609	1.00	13.32
ATOM	763	NH2	ASN	99	0.707	13.115	38.302	1.00	13.36
ATOM	764	C	ASN	99	0.286	11.006	42.451	1.00	13.35
ATOM	765	O	ASN	99	1.256	10.953	43.216	1.00	11.37
ATOM	766	N	ALA	100	-0.970	11.117	42.879	1.00	12.15
ATOM	767	CA	ALA	100	-1.284	11.179	44.306	1.00	14.14
ATOM	768	CB	ALA	100	-2.777	11.439	44.531	1.00	13.35
ATOM	769	C	ALA	100	-0.910	9.814	44.878	1.00	12.30
ATOM	770	O	ALA	100	-0.317	8.709	45.953	1.00	13.36
ATOM	771	N	ALA	101	-1.312	8.748	44.175	1.00	12.36
ATOM	772	CA	ALA	101	-0.939	7.412	44.679	1.00	10.37
ATOM	773	CB	ALA	101	-1.590	6.308	43.755	1.00	10.30
ATOM	774	C	ALA	101	0.517	7.264	44.853	1.00	10.31
ATOM	775	O	ALA	101	0.553	6.543	45.794	1.00	10.34
ATOM	776	N	THR	102	1.122	7.766	43.958	1.00	10.37
ATOM	777	CA	THR	102	2.741	7.666	44.046	1.00	10.32
ATOM	778	CB	THR	102	3.191	6.344	42.633	1.00	11.32
ATOM	779	CG1	THR	102	3.911	7.596	41.648	1.00	10.34
ATOM	780	CG2	THR	102	4.065	8.143	40.934	1.00	13.14
ATOM	781	C	THR	102	3.329	7.078	45.931	1.00	11.37
ATOM	782	O	THR	102	4.133	7.609	46.053	1.00	13.36
ATOM	783	N	VAL	103	2.672	3.410	45.693	1.00	13.39
ATOM	784	CA	VAL	103	3.075	12.178	46.786	1.00	17.15
ATOM	785	CB	VAL	103	2.771	11.602	46.844	1.00	22.15
ATOM	786	CG1	VAL	103	3.563	12.210	47.990	1.00	26.49
ATOM	787	CG2	VAL	103	3.758	12.418	49.807	1.00	21.10
ATOM	788	C	VAL	103	2.769	5.513	48.694	1.00	14.31
ATOM	789	O	VAL	103	3.477	6.519	49.993	1.00	14.33
ATOM	790	N	MET	104	1.554	8.299	48.648	1.00	13.38
ATOM	791	CA	MET	104	0.976	6.336	49.219	1.00	13.30
ATOM	792	CB	MET	104	-0.514	8.013	49.967	1.00	14.33
ATOM	793	CG	MET	104	-1.377	9.138	49.833	1.00	20.48
ATOM	794	CH	MET	104	-1.516	10.132	50.359	1.00	23.32
ATOM	795	CH2	MET	104	2.987	9.139	51.413	1.00	27.33
ATOM	796	C	MET	104	1.791	7.031	48.937	1.00	13.32
ATOM	797	O	MET	104	1.979	6.735	50.797	1.00	11.36
ATOM	798	N	ARG	105	2.008	6.242	48.768	1.00	11.37

ATOM	799	CA	ARG	105	2.711	4.989	48.743	1.00	11.59
ATOM	800	CB	ARG	105	2.817	4.152	47.453	1.00	14.28
ATOM	801	CG	ARG	105	1.492	3.637	46.914	1.00	15.18
ATOM	802	CD	ARG	105	1.673	2.942	45.648	1.00	15.17
ATOM	803	NE	ARG	105	0.436	2.355	45.086	1.00	18.07
ATOM	804	CZ	ARG	105	0.151	2.986	44.961	1.00	16.17
ATOM	805	NR1	ARG	105	1.021	3.857	44.420	1.00	14.18
ATOM	806	NR2	ARG	105	-1.030	2.802	43.376	1.00	16.92
ATOM	807	O	ARG	105	4.112	5.196	49.175	1.00	10.65
ATOM	808	O	ARG	105	4.684	4.494	50.069	1.00	12.75
ATOM	809	N	ALA	106	4.645	6.463	48.916	1.00	12.69
ATOM	810	CA	ALA	106	5.978	6.873	49.346	1.00	13.66
ATOM	811	CB	ALA	106	6.496	7.999	48.455	1.00	14.76
ATOM	812	C	ALA	106	6.015	7.105	50.807	1.00	15.59
ATOM	813	O	ALA	106	7.094	7.319	51.365	1.00	15.17
ATOM	814	N	GLY	107	4.841	7.430	51.420	1.00	14.50
ATOM	815	CA	GLY	107	4.759	7.806	52.811	1.00	14.57
ATOM	816	C	GLY	107	3.904	8.691	52.107	1.00	15.59
ATOM	817	O	GLY	107	3.751	9.173	54.795	1.00	16.59
ATOM	818	N	ALA	108	3.531	9.031	52.138	1.00	13.12
ATOM	819	CA	ALA	108	3.434	10.133	52.169	1.00	13.97
ATOM	820	CB	ALA	108	2.837	11.114	51.142	1.00	14.94
ATOM	821	C	ALA	108	2.122	10.914	52.039	1.00	16.46
ATOM	822	O	ALA	108	0.696	9.151	52.854	1.00	14.12
ATOM	823	N	ASN	109	0.461	11.130	52.880	1.00	14.14
ATOM	824	CA	ASN	109	-0.863	10.919	54.440	1.00	14.86
ATOM	825	CB	ASN	109	-0.447	11.137	55.931	1.00	14.17
ATOM	826	C	ASN	109	-3.612	10.433	56.736	1.00	14.97
ATOM	827	ND1	ASN	109	-6.101	8.136	56.924	1.00	16.84
ATOM	828	ND2	ASN	109	-6.619	11.133	55.188	1.00	14.83
ATOM	829	O	ASN	109	-11.601	11.731	53.737	1.00	13.58
ATOM	830	O	ASN	109	-3.102	11.136	57.476	1.00	15.32
ATOM	831	N	THR	110	-1.427	12.138	52.831	1.00	13.54
ATOM	832	CA	THR	110	-2.416	13.704	52.132	1.00	14.61
ATOM	833	CB	THR	110	-3.428	14.336	52.184	1.00	14.67
ATOM	834	C	THR	110	-3.395	15.902	52.910	1.00	19.21
ATOM	835	CO	THR	110	-4.143	16.371	54.171	1.00	20.75
ATOM	836	OH	THR	110	-5.445	16.144	54.495	1.00	18.93
ATOM	837	O	THR	110	-1.376	14.431	52.119	1.00	13.50
ATOM	838	C	THR	110	-2.358	14.635	52.185	1.00	14.01
ATOM	839	N	VAL	111	-2.323	14.810	50.191	1.00	13.28
ATOM	840	CA	VAL	111	-1.165	15.197	49.056	1.00	15.44
ATOM	841	CB	VAL	111	-2.175	14.136	47.752	1.00	18.91
ATOM	842	CG1	VAL	111	-1.600	15.614	46.364	1.00	21.41
ATOM	843	CG2	VAL	111	-1.104	13.416	47.691	1.00	16.70
ATOM	844	C	VAL	111	-2.771	16.944	49.000	1.00	15.84
ATOM	845	O	VAL	111	-3.420	17.139	49.144	1.00	16.27
ATOM	846	N	LYS	112	-1.411	17.369	48.736	1.00	18.00
ATOM	847	CA	LYS	112	-1.110	19.136	48.175	1.00	17.62
ATOM	848	CB	LYS	112	-0.812	20.114	49.824	1.00	16.94
ATOM	849	C	LYS	112	-1.299	21.650	49.103	1.00	18.28
ATOM	850	CD	LYS	112	-0.168	22.491	50.754	1.00	20.19
ATOM	851	CE	LYS	112	0.738	22.875	50.138	1.00	21.39
ATOM	852	NE	LYS	112	1.171	23.485	49.116	1.00	23.77
ATOM	853	C	LYS	112	-1.128	19.797	47.022	1.00	18.52
ATOM	854	O	LYS	112	-0.741	19.161	46.135	1.00	18.26
ATOM	855	N	ILE	113	-2.800	20.466	46.163	1.00	18.76
ATOM	856	CA	ILE	113	-2.876	20.436	45.187	1.00	19.67
ATOM	857	CB	ILE	113	-3.652	19.067	44.359	1.00	22.73
ATOM	858	C2	ILE	113	-3.270	18.673	44.169	1.00	22.69
ATOM	859	C1	ILE	113	-5.191	19.670	45.167	1.00	21.18
ATOM	860	C21	ILE	113	-6.111	19.041	44.116	1.00	23.35
ATOM	861	C	ILE	113	-3.344	18.368	45.135	1.00	20.68
ATOM	862	O	ILE	113	-4.206	22.694	45.119	1.00	23.09
ATOM	863	N	GLU	114	-2.775	23.355	44.117	1.00	20.93
ATOM	864	CA	GLU	114	-3.094	24.168	44.041	1.00	23.18
ATOM	865	CB	GLU	114	-1.873	25.119	43.110	1.00	23.81
ATOM	866	C	GLU	114	-9.715	25.378	44.178	1.00	25.24
ATOM	867	CD	GLU	114	-9.474	26.092	43.332	1.00	27.17
ATOM	868	CE1	GLU	114	-10.791	26.741	43.344	1.00	28.77
ATOM	869	CE2	GLU	114	-11.561	25.247	44.437	1.00	27.31
ATOM	870	C	GLU	114	-4.147	24.707	43.074	1.00	24.10
ATOM	871	O	GLU	114	-4.135	24.077	43.035	1.00	21.98
ATOM	872	N	GLY	115	-5.116	25.636	43.439	1.00	27.51
ATOM	873	CA	GLY	115	-6.134	25.933	43.544	1.00	24.88
ATOM	874	C	GLY	115	-7.191	26.079	43.137	1.00	24.81
ATOM	875	O	GLY	115	-11.111	26.743	44.141	1.00	27.17

ATOM	876	N	GLY	116	-8.569	26.582	42.496	1.00	25.06
ATOM	877	CA	GLY	116	-9.889	26.767	43.056	1.00	25.41
ATOM	878	O	GLY	116	-10.964	25.864	42.430	1.00	26.85
ATOM	879	C	GLY	116	-10.767	24.659	42.346	1.00	26.53
ATOM	880	N	GLU	117	-12.105	26.458	42.166	1.00	26.30
ATOM	881	CA	GLU	117	-13.268	25.782	41.696	1.00	27.23
ATOM	882	CB	GLU	117	-14.265	26.810	40.953	1.00	31.15
ATOM	883	CG	GLU	117	-15.191	27.444	41.923	1.00	36.76
ATOM	884	CD	GLU	117	-16.448	26.615	42.091	1.00	40.05
ATOM	885	OE1	GLU	117	-16.341	25.369	42.113	1.00	39.80
ATOM	886	OE2	GLU	117	-15.543	27.210	42.211	1.00	41.07
ATOM	887	C	GLU	117	-13.021	24.661	40.632	1.00	24.91
ATOM	888	O	GLU	117	-13.621	23.592	40.715	1.00	24.23
ATOM	889	N	TRP	118	-12.155	24.904	39.622	1.00	23.95
ATOM	890	CA	TRP	118	-11.880	23.906	38.558	1.00	23.09
ATOM	891	CB	TRP	118	-10.853	24.487	37.574	1.00	22.93
ATOM	892	CG	TRP	118	-9.417	24.453	38.027	1.00	22.06
ATOM	893	CD2	TRP	118	-8.430	25.472	37.736	1.00	22.29
ATOM	894	OE2	TRP	118	-7.327	25.816	36.386	1.00	21.35
ATOM	895	OE3	TRP	118	-8.419	22.131	37.015	1.00	21.59
ATOM	896	CD1	TRP	118	-8.383	25.177	38.755	1.00	21.77
ATOM	897	NE1	TRP	118	-7.472	25.607	38.909	1.00	21.97
ATOM	898	CD2	TRP	118	-6.049	25.042	38.212	1.00	21.19
ATOM	899	CD3	TRP	118	-7.373	21.478	36.932	1.00	19.76
ATOM	900	CH2	TRP	118	-6.093	21.936	37.558	1.00	18.03
ATOM	901	C	TRP	118	-11.415	22.582	39.177	1.00	20.71
ATOM	902	O	TRP	118	-11.594	21.542	38.453	1.00	21.61
ATOM	903	N	LEU	119	-10.933	32.563	40.375	1.00	23.51
ATOM	904	CA	LEU	119	-10.445	31.333	41.017	1.00	21.17
ATOM	905	CB	LEU	119	-9.323	31.686	42.000	1.00	22.00
ATOM	906	CG	LEU	119	-7.951	31.956	41.397	1.00	22.79
ATOM	907	CD1	LEU	119	-6.976	32.370	42.469	1.00	23.11
ATOM	908	CD2	LEU	119	-7.469	30.690	40.691	1.00	24.56
ATOM	909	C	LEU	119	-13.502	20.541	41.759	1.00	23.71
ATOM	910	O	LEU	119	-13.332	19.422	42.193	1.00	21.91
ATOM	911	N	VAL	120	-11.682	21.101	41.908	1.00	19.10
ATOM	912	CA	VAL	120	-10.766	20.419	42.658	1.00	19.95
ATOM	913	CB	VAL	120	-10.127	21.122	42.479	1.00	22.05
ATOM	914	CG1	VAL	120	-16.259	29.225	42.907	1.00	24.11
ATOM	915	CH3	VAL	120	-15.150	22.429	43.261	1.00	25.19
ATOM	916	C	VAL	120	-13.921	18.940	42.301	1.00	18.47
ATOM	917	O	VAL	120	-13.961	18.083	43.196	1.00	16.89
ATOM	918	N	GLU	121	-14.604	18.624	41.015	1.00	17.81
ATOM	919	CA	GLU	121	-14.163	17.227	40.611	1.00	17.82
ATOM	920	CB	GLU	121	-14.344	17.151	39.094	1.00	21.87
ATOM	921	CG	GLU	121	-14.419	15.733	38.576	1.00	25.89
ATOM	922	CD	GLU	121	-14.824	15.853	37.114	1.00	31.46
ATOM	923	OE1	GLU	121	-14.246	16.390	36.290	1.00	32.78
ATOM	924	OE2	GLU	121	-15.717	14.848	36.793	1.00	33.32
ATOM	925	C	GLU	121	-10.977	16.381	41.057	1.00	16.83
ATOM	926	O	GLU	121	-13.153	15.288	41.592	1.00	15.89
ATOM	927	N	THR	122	-11.773	16.901	40.846	1.00	16.35
ATOM	928	CA	THR	122	-10.557	16.188	41.230	1.00	15.80
ATOM	929	CB	THR	122	-9.291	17.010	40.858	1.00	16.10
ATOM	930	CG1	THR	122	-8.297	17.251	39.447	1.00	16.76
ATOM	931	CG2	THR	122	-8.009	16.250	41.215	1.00	15.78
ATOM	932	C	THR	122	-10.571	15.831	43.729	1.00	15.85
ATOM	933	O	THR	122	-10.360	14.769	43.145	1.00	14.78
ATOM	934	N	VAL	123	-10.995	16.830	43.339	1.00	16.77
ATOM	935	CA	VAL	123	-10.940	16.609	44.582	1.00	15.70
ATOM	936	CB	VAL	123	-11.265	17.993	45.722	1.00	16.73
ATOM	937	CG1	VAL	123	-11.387	17.733	47.217	1.00	15.84
ATOM	938	CG2	VAL	123	-10.194	19.023	46.431	1.00	17.86
ATOM	939	C	VAL	123	-11.964	15.649	45.392	1.00	16.79
ATOM	940	O	VAL	123	-11.685	14.793	46.237	1.00	13.71
ATOM	941	N	GLN	124	-13.155	15.738	44.503	1.00	15.90
ATOM	942	CA	GLN	124	-14.327	14.790	45.122	1.00	15.32
ATOM	943	CB	GLN	124	-15.499	15.146	44.333	1.00	19.71
ATOM	944	CG	GLN	124	-16.018	16.566	44.586	1.00	21.73
ATOM	945	CD	GLN	124	-17.335	16.631	43.871	1.00	33.93
ATOM	946	OE1	GLN	124	-17.414	16.835	47.641	1.00	33.93
ATOM	947	NE2	GLN	124	-18.370	17.190	44.643	1.00	28.31
ATOM	948	C	GLN	124	-13.820	13.350	44.815	1.00	18.24
ATOM	949	O	GLN	124	-14.945	12.439	43.621	1.00	17.51
ATOM	950	N	MET	125	-13.318	13.151	43.648	1.00	16.58
ATOM	951	CA	MET	125	-12.798	11.820	43.219	1.00	17.11
ATOM	952	CB	MET	125	-12.133	11.790	41.735	1.00	17.13

ATOM	953	CG	MET	125	-13.842	12.007	40.930	1.00	20.76
ATOM	954	SD	MET	125	-13.596	12.024	39.156	1.00	21.82
ATOM	955	CE	MET	125	-13.477	10.274	38.825	1.00	24.59
ATOM	956	C	MET	125	-11.578	11.317	44.011	1.00	15.45
ATOM	957	O	MET	125	-11.513	10.143	44.357	1.00	15.81
ATOM	958	N	LEU	126	-10.618	12.142	44.283	1.00	15.52
ATOM	959	CA	LEU	126	-8.458	11.776	45.047	1.00	16.42
ATOM	960	CR	LEU	126	-8.488	12.941	45.115	1.00	15.46
ATOM	961	CG	LEU	126	-7.491	13.046	44.056	1.00	16.54
ATOM	962	CD1	LEU	126	-6.569	14.439	44.166	1.00	17.29
ATOM	963	CD2	LEU	126	-6.498	11.953	44.687	1.00	16.74
ATOM	964	C	LEU	126	-9.914	11.264	46.416	1.00	17.65
ATOM	965	O	LEU	126	-9.459	10.217	46.682	1.00	15.07
ATOM	966	N	THR	127	-10.831	12.001	47.043	1.00	18.88
ATOM	967	CA	THR	127	-11.870	11.648	46.757	1.00	22.38
ATOM	968	CB	THR	127	-12.489	12.630	46.788	1.00	24.31
ATOM	969	OG1	THR	127	-11.971	13.967	46.925	1.00	30.18
ATOM	970	CG2	THR	127	-13.618	12.265	50.157	1.00	28.58
ATOM	971	C	THR	127	-11.950	10.215	48.486	1.00	21.91
ATOM	972	O	THR	127	-11.194	9.449	48.779	1.00	20.97
ATOM	973	N	GLU	128	-12.354	7.330	47.681	1.00	21.67
ATOM	974	CA	GLU	128	-13.451	8.359	47.673	1.00	21.51
ATOM	975	CB	GLU	128	-14.043	8.332	46.439	1.00	26.45
ATOM	976	CG	GLU	128	-14.651	9.613	45.450	1.00	27.52
ATOM	977	CD	GLU	128	-15.046	9.312	44.391	1.00	28.90
ATOM	978	OE1	GLU	128	-17.000	9.489	44.669	1.00	26.96
ATOM	979	OE2	GLU	128	-15.625	9.488	41.181	1.00	24.94
ATOM	980	C	GLU	128	-12.435	7.335	47.740	1.00	21.91
ATOM	981	O	GLU	128	-12.641	6.333	47.458	1.00	22.58
ATOM	982	N	ARG	129	-11.324	7.495	46.620	1.00	19.89
ATOM	983	CA	ARG	129	-10.291	6.939	46.776	1.00	18.15
ATOM	984	CB	ARG	129	-9.713	7.236	44.392	1.00	18.25
ATOM	985	CG	ARG	129	-10.712	6.354	43.664	1.00	18.53
ATOM	986	CD	ARG	129	-10.483	7.708	41.322	1.00	18.74
ATOM	987	NE	ARG	129	-11.314	7.436	41.326	1.00	18.87
ATOM	988	CH	ARG	129	-12.793	7.779	41.391	1.00	18.52
ATOM	989	NH1	ARG	129	-13.120	8.459	42.467	1.00	18.64
ATOM	990	NH2	ARG	129	-13.654	7.440	40.144	1.00	15.63
ATOM	991	C	ARG	129	-9.102	6.886	47.160	1.00	18.41
ATOM	992	O	ARG	129	-8.045	6.571	45.985	1.00	18.30
ATOM	993	N	ALA	130	-9.818	7.174	48.486	1.00	19.07
ATOM	994	CA	ALA	130	-8.789	7.139	47.495	1.00	17.95
ATOM	995	CB	ALA	130	-8.201	5.722	47.468	1.00	16.84
ATOM	996	C	ALA	130	-7.674	8.164	47.460	1.00	18.35
ATOM	997	O	ALA	130	-6.321	8.015	50.138	1.00	17.72
ATOM	998	N	VAL	131	-7.684	9.211	49.340	1.00	13.16
ATOM	999	CA	VAL	131	-6.656	10.236	47.123	1.00	13.11
ATOM	1000	CP	VAL	131	-6.059	10.538	47.730	1.00	13.63
ATOM	1001	CG1	VAL	131	-4.972	11.599	47.556	1.00	19.02
ATOM	1002	CG2	VAL	131	-5.502	9.264	47.124	1.00	18.18
ATOM	1003	C	VAL	131	-7.162	11.550	49.704	1.00	17.21
ATOM	1004	O	VAL	131	-7.921	12.274	49.959	1.00	17.48
ATOM	1005	N	PRO	132	-6.768	11.858	50.647	1.00	17.96
ATOM	1006	CA	PRO	132	-6.078	10.981	51.009	1.00	16.97
ATOM	1007	CB	PRO	132	-7.195	13.109	51.680	1.00	16.68
ATOM	1008	CG	PRO	132	-6.775	12.939	53.343	1.00	17.66
ATOM	1009	CD	PRO	132	-5.667	11.944	52.079	1.00	22.79
ATOM	1010	C	PRO	132	-6.495	14.270	50.680	1.00	16.46
ATOM	1011	O	PRO	132	-5.335	14.159	50.465	1.00	14.89
ATOM	1012	N	VAL	133	-7.207	15.381	50.745	1.00	15.39
ATOM	1013	CA	VAL	133	-6.666	16.534	50.040	1.00	14.12
ATOM	1014	CB	VAL	133	-7.466	16.616	48.772	1.00	14.92
ATOM	1015	CG1	VAL	133	-6.921	18.611	48.937	1.00	12.34
ATOM	1016	CG2	VAL	133	-7.495	15.577	47.474	1.00	13.07
ATOM	1017	C	VAL	133	-6.831	17.831	50.355	1.00	14.77
ATOM	1018	O	VAL	133	-7.536	18.113	51.632	1.00	14.95
ATOM	1019	N	TYR	134	-5.546	18.571	50.630	1.00	15.49
ATOM	1020	CA	TYR	134	-5.355	16.848	51.273	1.00	14.56
ATOM	1021	CB	TYR	134	-4.061	18.946	51.948	1.00	14.83
ATOM	1022	CG	TYR	134	-7.849	21.157	52.681	1.00	17.18
ATOM	1023	CD	TYR	134	-5.988	20.833	50.121	1.00	18.54
ATOM	1024	O	TYR	134	-4.647	20.534	49.143	1.00	16.64
ATOM	1025	N	GLY	135	-6.276	21.331	50.715	1.00	16.38
ATOM	1026	CA	GLY	135	-6.371	21.964	49.176	1.00	16.44
ATOM	1027	C	GLY	135	-5.297	23.910	49.263	1.00	18.46
ATOM	1028	O	GLY	135	-4.615	23.940	50.387	1.00	18.46
ATOM	1029	N	GLY	135	-5.131	24.850	48.386	1.00	18.50

ATOM	1030	CA	HIS	136	-4.147	25.868	43.435	1.00	18.97
ATOM	1031	C	HIS	136	-4.624	27.055	47.603	1.00	21.58
ATOM	1032	O	HIS	136	-4.717	26.985	46.380	1.00	21.19
ATOM	1033	CB	HIS	136	-2.810	25.332	47.849	1.00	19.18
ATOM	1034	CG	HIS	136	-1.653	26.240	48.116	1.00	19.85
ATOM	1035	ND1	HIS	136	-0.349	25.754	48.019	1.00	21.61
ATOM	1036	OE1	HIS	136	0.411	26.819	48.245	1.00	22.89
ATOM	1037	CD2	HIS	136	-1.614	27.568	48.401	1.00	19.60
ATOM	1038	NE2	HIS	136	-0.291	27.929	48.474	1.00	20.06
ATOM	1039	N	LEU	137	-4.915	28.167	48.278	1.00	23.56
ATOM	1040	CA	LEU	137	-5.399	29.374	48.617	1.00	24.34
ATOM	1041	CB	LEU	137	-6.850	29.655	48.019	1.00	21.33
ATOM	1042	CG	LEU	137	-7.084	28.174	47.685	1.00	24.22
ATOM	1043	GL1	LEU	137	-9.203	28.871	48.388	1.00	24.52
ATOM	1044	GD2	LEU	137	-8.072	28.810	48.181	1.00	24.79
ATOM	1045	C	LEU	137	-4.529	31.578	47.979	1.00	26.25
ATOM	1046	O	LEU	137	-5.796	31.582	48.969	1.00	23.52
ATOM	1047	N	GLY	138	-4.617	31.880	48.169	1.00	28.18
ATOM	1048	CA	GLY	138	-5.854	31.187	47.411	1.00	26.33
ATOM	1049	C	GLY	138	-7.701	32.256	48.414	1.00	31.90
ATOM	1050	O	GLY	138	-11.919	31.879	47.114	1.00	28.34
ATOM	1051	N	LEU	139	-11.459	33.139	48.916	1.00	34.18
ATOM	1052	CA	LEU	139	-6.123	33.112	48.018	1.00	36.15
ATOM	1053	CB	LEU	139	0.734	33.362	48.787	1.00	37.11
ATOM	1054	CG	LEU	139	1.968	34.112	48.935	1.00	38.00
ATOM	1055	CD1	LEU	139	2.839	33.312	48.884	1.00	40.53
ATOM	1056	CD2	LEU	139	2.780	33.335	48.582	1.00	37.86
ATOM	1057	C	LEU	139	0.150	33.317	48.608	1.00	37.55
ATOM	1058	O	LEU	139	0.814	33.184	48.442	1.00	37.34
ATOM	1059	N	THR	140	-0.104	31.111	48.881	1.00	35.50
ATOM	1060	CA	THR	140	0.066	29.474	48.081	1.00	35.58
ATOM	1061	CB	THR	140	-1.057	29.165	48.214	1.00	38.11
ATOM	1062	OG1	THR	140	-1.771	31.136	48.145	1.00	38.58
ATOM	1063	CD1	THR	140	-2.161	29.118	48.053	1.00	37.64
ATOM	1064	C	THR	140	1.743	31.144	48.149	1.00	37.19
ATOM	1065	O	THR	140	1.114	31.144	48.031	1.00	38.38
ATOM	1066	N	PRO	141	2.463	29.646	48.847	1.00	38.00
ATOM	1067	CA	PRO	141	2.619	29.377	48.140	1.00	38.41
ATOM	1068	CB	PRO	141	3.778	29.649	48.117	1.00	37.89
ATOM	1069	CG	PRO	141	4.741	28.115	48.147	1.00	37.62
ATOM	1070	CD	PRO	141	3.864	29.350	48.055	1.00	38.143
ATOM	1071	C	PRO	141	3.831	28.499	48.881	1.00	37.49
ATOM	1072	O	PRO	141	4.621	29.355	48.917	1.00	38.87
ATOM	1073	N	GLN	142	2.945	27.371	48.700	1.00	35.92
ATOM	1074	CA	GLN	142	2.971	27.084	48.470	1.00	35.63
ATOM	1075	CB	GLN	142	2.071	26.451	48.085	1.00	36.67
ATOM	1076	CG	GLN	142	2.397	24.601	48.081	1.00	34.15
ATOM	1077	GD	GLN	142	1.869	26.471	48.438	1.00	33.64
ATOM	1078	OE1	GLN	142	0.906	26.186	48.787	1.00	31.98
ATOM	1079	NE2	GLN	142	2.117	26.317	48.583	1.00	33.66
ATOM	1080	C	GLN	142	2.508	27.920	48.382	1.00	34.52
ATOM	1081	O	GLN	142	2.354	27.687	48.114	1.00	34.49
ATOM	1082	N	SER	143	1.719	26.257	48.562	1.00	36.73
ATOM	1083	CA	SER	143	1.219	24.824	48.513	1.00	40.92
ATOM	1084	CB	SER	143	-0.273	26.127	48.752	1.00	40.43
ATOM	1085	CG	SER	143	-1.954	26.946	48.606	1.00	41.94
ATOM	1086	C	SER	143	1.381	31.144	48.434	1.00	41.64
ATOM	1087	O	SER	143	1.448	31.177	48.076	1.00	41.46
ATOM	1088	N	VAL	144	3.233	31.111	48.916	1.00	42.62
ATOM	1089	CA	VAL	144	4.075	31.306	48.835	1.00	43.78
ATOM	1090	CB	VAL	144	3.463	31.996	49.442	1.00	43.39
ATOM	1091	CG1	VAL	144	4.154	31.001	48.588	1.00	43.74
ATOM	1092	CG2	VAL	144	4.225	31.271	49.616	1.00	43.58
ATOM	1093	C	VAL	144	3.214	31.918	47.941	1.00	44.58
ATOM	1094	O	VAL	144	4.423	31.127	47.405	1.00	41.39
ATOM	1095	N	ASN	145	4.111	31.067	46.512	1.00	43.34
ATOM	1096	CA	ASN	145	4.251	31.949	45.130	1.00	47.61
ATOM	1097	CB	ASN	145	4.606	31.366	44.214	1.00	47.34
ATOM	1098	CG	ASN	145	5.991	30.821	44.105	1.00	48.61
ATOM	1099	CD	ASN	145	7.001	31.488	44.164	1.00	45.34
ATOM	1100	ND1	ASN	145	6.043	29.607	45.631	1.00	43.81
ATOM	1101	C	ASN	145	3.918	33.173	44.640	1.00	47.35
ATOM	1102	O	ASN	145	2.905	33.811	43.585	1.00	47.79
ATOM	1103	N	ILE	146	1.877	28.001	45.410	1.00	48.31
ATOM	1104	CA	ILE	146	0.574	28.563	45.055	1.00	49.19
ATOM	1105	CB	ILE	146	1.174	27.993	45.589	1.00	49.19
ATOM	1106	CG	ILE	146	-1.913	28.335	46.062	1.00	48.67

ATOM	1107	CG1	ILE	146	-0.485	31.290	34.981	1.00	48.60
ATOM	1108	CD1	ILE	146	-0.628	31.261	33.472	1.00	48.16
ATOM	1109	C	ILE	146	0.426	34.976	35.613	1.00	51.32
ATOM	1110	O	ILE	146	-0.045	35.880	34.934	1.00	51.26
ATOM	1111	N	PHE	147	0.871	35.154	36.879	1.00	53.28
ATOM	1112	CA	PHE	147	0.756	36.448	37.553	1.00	54.17
ATOM	1113	CB	PHE	147	0.713	36.254	38.012	1.00	55.12
ATOM	1114	CG	PHE	147	-0.198	35.152	39.528	1.00	56.36
ATOM	1115	CD1	PHE	147	-1.512	35.177	39.218	1.00	57.26
ATOM	1116	CD2	PHE	147	0.305	34.084	40.266	1.00	57.27
ATOM	1117	CE1	PHE	147	-2.400	34.151	39.634	1.00	57.90
ATOM	1118	CE2	PHE	147	-0.533	33.052	40.688	1.00	57.81
ATOM	1119	CZ	PHE	147	-1.867	33.086	40.371	1.00	58.12
ATOM	1120	C	PHE	147	1.914	37.350	37.188	1.00	54.46
ATOM	1121	O	PHE	147	1.957	38.528	37.544	1.00	54.14
ATOM	1122	N	GLY	148	2.890	36.787	36.483	1.00	55.28
ATOM	1123	CA	GLY	148	4.056	37.555	36.090	1.00	56.16
ATOM	1124	C	GLY	148	4.972	37.817	37.268	1.00	56.63
ATOM	1125	O	GLY	148	5.699	38.506	37.184	1.00	56.49
ATOM	1126	N	GLY	149	4.975	36.920	38.149	1.00	57.50
ATOM	1127	CA	GLY	149	5.767	37.668	39.411	1.00	58.67
ATOM	1128	C	GLY	149	4.960	36.600	40.635	1.00	58.44
ATOM	1129	O	GLY	149	3.816	36.305	40.617	1.00	59.46
ATOM	1130	N	TYR	150	5.165	36.750	41.377	1.00	61.00
ATOM	1131	CA	TYR	150	5.018	36.467	43.108	1.00	62.09
ATOM	1132	CB	TYR	150	3.029	35.810	44.068	1.00	62.64
ATOM	1133	CG	TYR	150	6.779	34.653	43.484	1.00	63.29
ATOM	1134	CD1	TYR	150	7.919	34.848	42.688	1.00	64.15
ATOM	1135	CE1	TYR	150	8.602	32.764	43.342	1.00	64.58
ATOM	1136	CD1	TYR	150	6.355	33.364	43.718	1.00	64.03
ATOM	1137	CE2	TYR	150	7.038	32.253	43.175	1.00	63.87
ATOM	1138	CE2	TYR	150	8.160	32.474	42.089	1.00	64.27
ATOM	1139	OH	TYR	150	8.840	31.407	41.849	1.00	64.43
ATOM	1140	C	TYR	150	4.438	37.751	43.744	1.00	62.46
ATOM	1141	O	TYR	150	5.147	38.513	44.347	1.00	62.18
ATOM	1142	N	LYS	151	3.173	37.883	43.601	1.00	62.64
ATOM	1143	CA	LYS	151	2.474	39.038	44.191	1.00	62.82
ATOM	1144	CB	LYS	151	1.766	38.642	44.020	1.00	63.80
ATOM	1145	CG	LYS	151	2.565	40.359	41.890	1.00	64.61
ATOM	1146	CD	LYS	151	2.085	41.186	40.916	1.00	65.48
ATOM	1147	CE	LYS	151	3.100	41.731	39.601	1.00	66.46
ATOM	1148	NZ	LYS	151	2.464	42.586	38.878	1.00	66.97
ATOM	1149	C	LYS	151	1.361	38.615	45.161	1.00	62.18
ATOM	1150	O	LYS	151	1.063	37.433	45.375	1.00	62.06
ATOM	1151	N	VAL	152	0.815	39.586	45.893	1.00	61.53
ATOM	1152	CA	VAL	152	-0.204	39.309	46.897	1.00	60.97
ATOM	1153	CB	VAL	152	-0.199	40.378	48.010	1.00	60.76
ATOM	1154	CG1	VAL	152	-1.025	40.039	49.075	1.00	60.74
ATOM	1155	CG2	VAL	152	1.193	40.458	48.603	1.00	60.69
ATOM	1156	C	VAL	152	-1.601	39.263	46.193	1.00	60.64
ATOM	1157	O	VAL	152	-1.944	40.116	45.159	1.00	60.43
ATOM	1158	N	GLN	153	-2.341	38.205	46.608	1.00	60.42
ATOM	1159	CA	GLN	153	-3.723	38.012	46.111	1.00	60.14
ATOM	1160	CB	GLN	153	-3.913	36.620	45.781	1.00	60.23
ATOM	1161	CG	GLN	153	-3.467	36.402	44.140	1.00	61.33
ATOM	1162	CD	GLN	153	-1.977	36.593	43.611	1.00	61.41
ATOM	1163	OE1	GLN	153	-1.165	35.891	44.371	1.00	62.43
ATOM	1164	NE2	GLN	153	-1.695	37.531	43.191	1.00	60.36
ATOM	1165	C	GLN	153	-4.715	38.333	47.111	1.00	59.42
ATOM	1166	O	GLN	153	-4.452	38.483	48.373	1.00	59.56
ATOM	1167	N	GLY	154	-5.963	38.410	46.433	1.00	58.76
ATOM	1168	CA	GLY	154	-7.032	38.635	47.118	1.00	58.16
ATOM	1169	C	GLY	154	-7.425	40.146	47.217	1.00	57.66
ATOM	1170	O	GLY	154	-8.548	40.489	46.139	1.00	58.85
ATOM	1171	N	ARG	155	-8.549	41.013	47.111	1.00	58.06
ATOM	1172	CA	ARG	155	-6.732	41.455	47.330	1.00	58.99
ATOM	1173	CB	ARG	155	-5.135	41.174	46.711	1.00	58.37
ATOM	1174	CG	ARG	155	-4.794	42.990	47.170	1.00	60.73
ATOM	1175	CD	ARG	155	-4.367	43.586	46.473	1.00	62.00
ATOM	1176	NE	ARG	155	-4.797	43.409	46.247	1.00	62.69
ATOM	1177	CZ	ARG	155	-1.616	43.969	49.127	1.00	63.25
ATOM	1178	NH1	ARG	155	-1.773	44.750	48.157	1.00	63.13
ATOM	1179	NH2	ARG	155	-6.777	43.733	49.933	1.00	63.47
ATOM	1180	C	ARG	155	-7.966	42.771	46.575	1.00	57.05
ATOM	1181	O	ARG	155	-8.113	42.395	45.425	1.00	57.28
ATOM	1182	N	GLY	156	-8.908	43.513	47.184	1.00	55.32
ATOM	1183	CA	GLY	156	-10.155	43.862	46.498	1.00	55.22

ATOM	1184	C	GLY	156	-11.306	43.028	46.976	1.00	52.09
ATOM	1185	O	GLY	156	-11.123	41.920	47.501	1.00	51.92
ATOM	1186	N	ASF	157	-12.511	43.552	46.790	1.00	50.49
ATOM	1187	CA	ASF	157	-13.711	42.872	47.208	1.00	49.19
ATOM	1188	CB	ASF	157	-14.914	41.832	47.090	1.00	50.73
ATOM	1189	CG	ASF	157	-14.697	45.121	47.854	1.00	51.46
ATOM	1190	OD1	ASF	157	-14.897	45.122	49.086	1.00	50.41
ATOM	1191	OD2	ASF	157	-14.864	46.126	47.216	1.00	50.00
ATOM	1192	C	ASP	157	-13.991	42.834	46.358	1.00	48.08
ATOM	1193	O	ASP	157	-14.131	40.944	46.881	1.00	46.48
ATOM	1194	N	GLU	158	-13.947	41.811	45.043	1.00	46.00
ATOM	1195	CA	GLU	158	-14.178	40.718	44.116	1.00	45.65
ATOM	1196	CB	GLU	158	-14.062	41.125	42.625	1.00	48.05
ATOM	1197	CG	GLU	158	-14.387	40.169	41.628	1.00	50.76
ATOM	1198	CD	GLU	158	-14.563	40.755	40.132	1.00	53.13
ATOM	1199	OE1	GLU	158	-15.430	41.764	40.032	1.00	55.10
ATOM	1200	OE2	GLU	158	-15.070	40.831	39.567	1.00	54.38
ATOM	1201	C	GLU	158	-13.187	39.758	44.329	1.00	41.76
ATOM	1202	O	GLU	158	-13.184	38.428	44.129	1.00	41.87
ATOM	1203	N	ALA	159	-11.398	39.899	41.217	1.00	41.77
ATOM	1204	CA	ALA	159	-10.339	38.891	44.487	1.00	39.73
ATOM	1205	CB	ALA	159	-9.481	39.747	44.414	1.00	39.63
ATOM	1206	C	ALA	159	-11.061	38.177	43.014	1.00	38.01
ATOM	1207	O	ALA	159	-10.887	36.758	43.004	1.00	37.78
ATOM	1208	N	GLY	160	-11.419	38.744	46.840	1.00	16.88
ATOM	1209	CA	GLY	160	-11.647	38.771	43.151	1.00	35.81
ATOM	1210	C	GLY	160	-12.818	37.410	43.194	1.00	35.10
ATOM	1211	O	GLY	160	-12.138	36.750	43.761	1.00	34.10
ATOM	1212	N	ASP	161	-11.091	37.815	47.001	1.00	17.82
ATOM	1213	CA	ASP	161	-12.123	36.001	47.831	1.00	17.85
ATOM	1214	CB	ASP	161	-12.031	37.737	47.038	1.00	14.66
ATOM	1215	CG	ASP	161	-12.651	39.086	47.761	1.00	35.47
ATOM	1216	OD1	ASP	161	-12.711	38.796	49.109	1.00	34.80
ATOM	1217	OD2	ASP	161	-12.892	40.056	47.055	1.00	37.49
ATOM	1218	C	ASP	161	-12.887	38.717	46.018	1.00	32.60
ATOM	1219	O	ASP	161	-12.853	37.764	46.010	1.00	30.79
ATOM	1220	N	GLN	162	-12.867	37.812	45.733	1.00	37.42
ATOM	1221	CA	GLN	162	-12.887	34.690	44.811	1.00	34.32
ATOM	1222	CB	GLN	162	-12.810	33.160	43.112	1.00	35.93
ATOM	1223	CG	GLN	162	-12.849	34.069	42.630	1.00	40.34
ATOM	1224	CD	GLN	162	-12.887	34.757	42.035	1.00	43.13
ATOM	1225	OE1	GLN	162	-14.770	34.023	41.734	1.00	45.74
ATOM	1226	OE2	GLN	162	-12.866	32.056	42.874	1.00	44.65
ATOM	1227	C	GLN	162	-12.815	33.613	45.683	1.00	32.85
ATOM	1228	O	GLN	162	-12.876	31.419	45.575	1.00	32.77
ATOM	1229	N	LEU	163	-12.308	34.012	46.474	1.00	31.71
ATOM	1230	CA	LEU	163	-12.119	34.074	47.375	1.00	31.82
ATOM	1231	CB	LEU	163	-12.005	34.792	43.017	1.00	33.87
ATOM	1232	CG	LEU	163	-11.779	34.358	47.173	1.00	35.14
ATOM	1233	CD1	LEU	163	-11.018	34.151	48.064	1.00	38.34
ATOM	1234	CD2	LEU	163	-8.146	31.012	46.472	1.00	36.22
ATOM	1235	C	LEU	163	-12.059	31.363	48.379	1.00	31.54
ATOM	1236	O	LEU	163	-12.463	31.150	48.456	1.00	30.32
ATOM	1237	N	LEU	164	-12.042	33.124	48.354	1.00	30.37
ATOM	1238	CA	LEU	164	-13.443	32.056	49.015	1.00	33.55
ATOM	1239	CB	LEU	164	-14.102	33.669	50.530	1.00	31.08
ATOM	1240	CG	LEU	164	-13.296	33.461	51.925	1.00	31.21
ATOM	1241	CD1	LEU	164	-13.011	34.716	52.346	1.00	35.31
ATOM	1242	CD2	LEU	164	-12.313	32.261	51.917	1.00	32.39
ATOM	1243	C	LEU	164	-11.737	31.510	49.263	1.00	28.36
ATOM	1244	O	LEU	164	-13.759	30.440	49.741	1.00	28.39
ATOM	1245	N	SER	165	-13.118	31.875	47.912	1.00	27.45
ATOM	1246	CA	SER	165	-12.473	31.001	47.173	1.00	28.48
ATOM	1247	CB	SER	165	-12.458	31.719	45.867	1.00	26.87
ATOM	1248	CG	SER	165	-12.333	30.933	45.133	1.00	31.32
ATOM	1249	O	SER	165	-15.113	29.639	46.656	1.00	28.43
ATOM	1250	C	SER	165	-15.776	28.611	47.010	1.00	27.36
ATOM	1251	N	ASP	166	-13.337	29.810	46.412	1.00	28.79
ATOM	1252	CA	ASP	166	-13.194	28.648	46.078	1.00	25.84
ATOM	1253	CB	ASP	166	-11.831	29.057	45.467	1.00	27.39
ATOM	1254	CG	ASP	166	-12.936	29.645	44.028	1.00	28.71
ATOM	1255	OD1	ASP	166	-12.713	29.099	43.262	1.00	31.41
ATOM	1256	OD2	ASP	166	-11.497	30.644	43.639	1.00	28.72
ATOM	1257	C	ASP	166	-12.886	27.840	47.531	1.00	25.45
ATOM	1258	O	ASP	166	-12.769	26.615	47.275	1.00	25.73
ATOM	1259	N	ALA	167	-12.750	26.534	48.459	1.00	24.48
ATOM	1260	CA	ALA	167	-12.454	27.893	49.733	1.00	25.78

ATOM	1261	CB	ALA	167	-12.184	28.956	50.846	1.00	23.00
ATOM	1262	C	ALA	167	-13.549	26.991	50.169	1.00	21.48
ATOM	1263	O	ALA	167	-13.787	25.832	50.542	1.00	19.60
ATOM	1264	N	LEU	168	-14.817	27.523	50.160	1.00	21.01
ATOM	1265	CA	LEU	168	-15.983	26.734	50.534	1.00	20.90
ATOM	1266	CE	LEU	168	-17.218	27.621	50.546	1.00	21.15
ATOM	1267	CG	LEU	168	-17.387	28.514	51.841	1.00	19.76
ATOM	1268	CD1	LEU	168	-18.297	29.690	51.531	1.00	21.84
ATOM	1269	CD2	LEU	168	-17.967	27.639	52.938	1.00	20.27
ATOM	1270	C	LEU	168	-16.189	25.630	49.549	1.00	20.35
ATOM	1271	O	LEU	168	-16.610	24.527	49.835	1.00	21.26
ATOM	1272	N	ALA	169	-15.975	25.943	48.248	1.00	21.84
ATOM	1273	CA	ALA	169	-16.068	24.984	47.141	1.00	22.58
ATOM	1274	CB	ALA	169	-15.174	25.648	45.839	1.00	19.71
ATOM	1275	C	ALA	169	-15.198	23.764	47.348	1.00	23.26
ATOM	1276	O	ALA	169	-15.638	22.626	47.142	1.00	23.84
ATOM	1277	N	LEU	170	-13.944	24.014	47.747	1.00	22.11
ATOM	1278	CA	LEU	170	-13.605	23.915	47.944	1.00	21.77
ATOM	1279	CB	LEU	170	-11.585	23.475	48.149	1.00	19.66
ATOM	1280	CG	LEU	170	-10.914	24.117	48.949	1.00	17.91
ATOM	1281	CH1	LEU	170	-8.646	24.836	47.210	1.00	19.18
ATOM	1282	CH2	LEU	170	-10.535	23.641	45.910	1.00	18.13
ATOM	1283	C	LEU	170	-14.447	22.114	46.142	1.00	20.46
ATOM	1284	O	LEU	170	-13.408	20.838	49.145	1.00	20.34
ATOM	1285	N	GLU	171	-13.883	22.801	50.243	1.00	21.68
ATOM	1286	CA	GLU	171	-14.312	22.116	51.461	1.00	21.23
ATOM	1287	CB	GLU	171	-14.746	23.119	52.546	1.00	22.51
ATOM	1288	CG	GLU	171	-15.345	22.530	53.735	1.00	25.91
ATOM	1289	CD	GLU	171	-15.735	23.536	54.834	1.00	27.15
ATOM	1290	OE1	GLU	171	-16.404	24.130	54.437	1.00	27.15
ATOM	1291	OE2	GLU	171	-15.317	23.131	56.016	1.00	27.24
ATOM	1292	C	GLU	171	-15.504	21.139	51.139	1.00	21.24
ATOM	1293	O	GLU	171	-15.538	20.044	51.543	1.00	21.38
ATOM	1294	N	ALA	172	-16.466	21.131	50.334	1.00	21.11
ATOM	1295	CA	ALA	172	-17.037	20.919	50.013	1.00	21.23
ATOM	1296	CB	ALA	172	-16.651	21.607	49.249	1.00	21.69
ATOM	1297	C	ALA	172	-17.277	19.734	49.134	1.00	20.21
ATOM	1298	O	ALA	172	-17.942	18.698	49.117	1.00	19.47
ATOM	1299	N	ALA	173	-16.182	19.868	48.334	1.00	22.43
ATOM	1300	CA	ALA	173	-15.735	18.801	47.441	1.00	19.01
ATOM	1301	CB	ALA	173	-14.747	19.179	46.434	1.00	20.74
ATOM	1302	C	ALA	173	-15.034	17.690	48.236	1.00	21.01
ATOM	1303	O	ALA	173	-14.845	16.575	47.742	1.00	20.88
ATOM	1304	N	GLY	174	-14.651	18.000	49.530	1.00	20.54
ATOM	1305	CA	GLY	174	-14.011	16.998	50.352	1.00	20.44
ATOM	1306	C	GLY	174	-12.664	17.365	50.949	1.00	19.79
ATOM	1307	O	GLY	174	-12.077	16.353	51.659	1.00	19.40
ATOM	1308	N	ALA	175	-12.157	18.354	50.658	1.00	20.44
ATOM	1309	CA	ALA	175	-10.871	18.964	51.218	1.00	19.53
ATOM	1310	CB	ALA	175	-10.464	20.116	50.677	1.00	20.23
ATOM	1311	C	ALA	175	-10.872	19.005	52.717	1.00	21.74
ATOM	1312	O	ALA	175	-11.891	19.610	53.237	1.00	20.43
ATOM	1313	N	GLN	176	-10.037	18.347	53.431	1.00	20.03
ATOM	1314	CA	GLN	176	-10.611	18.310	54.892	1.00	20.58
ATOM	1315	CB	GLN	176	-9.634	16.946	55.392	1.00	20.99
ATOM	1316	CG	GLN	176	-10.542	15.922	54.889	1.00	23.71
ATOM	1317	CH	GLN	176	-10.127	14.487	55.535	1.00	23.55
ATOM	1318	OE1	GLN	176	-10.614	14.391	56.713	1.00	23.79
ATOM	1319	NE2	GLN	176	-9.735	13.551	54.766	1.00	27.44
ATOM	1320	C	GLN	176	-8.036	13.344	55.487	1.00	23.58
ATOM	1321	O	GLN	176	-8.621	14.515	56.705	1.00	13.40
ATOM	1322	N	LEU	177	-8.774	20.037	54.613	1.00	23.94
ATOM	1323	CA	LEU	177	-7.440	21.074	55.601	1.00	21.63
ATOM	1324	CB	LEU	177	-8.663	20.478	55.115	1.00	22.64
ATOM	1325	CG	LEU	177	-9.811	20.041	54.763	1.00	25.56
ATOM	1326	CH1	LEU	177	-4.463	19.321	56.874	1.00	24.79
ATOM	1327	CH2	LEU	177	-5.838	21.272	57.676	1.00	24.33
ATOM	1328	C	LEU	177	-7.308	22.097	52.585	1.00	22.06
ATOM	1329	O	LEU	177	-7.539	21.792	52.709	1.00	20.39
ATOM	1330	N	LEU	178	-6.948	23.117	54.261	1.00	19.35
ATOM	1331	CA	LEU	178	-6.779	24.386	53.325	1.00	20.41
ATOM	1332	CB	LEU	178	-8.063	25.211	53.189	1.00	19.08
ATOM	1333	CG	LEU	178	-7.947	26.457	52.347	1.00	21.83
ATOM	1334	CH1	LEU	178	-7.793	26.656	50.832	1.00	20.51
ATOM	1335	CH2	LEU	178	-9.187	27.337	52.472	1.00	21.62
ATOM	1336	C	LEU	178	-6.830	25.384	53.681	1.00	21.17
ATOM	1337	O	LEU	178	-5.499	25.703	54.849	1.00	21.61

ATOM	1328	N	VAL	179	-4.803	25.671	52.696	1.00	20.87
ATOM	1329	CA	VAL	179	-3.572	26.516	52.893	1.00	21.64
ATOM	1340	CB	VAL	179	-2.366	25.91	52.370	1.00	21.83
ATOM	1341	CG1	VAL	179	-1.280	26.988	52.238	1.00	21.50
ATOM	1342	CG2	VAL	179	-1.876	24.77	52.204	1.00	16.70
ATOM	1343	C	VAL	179	-3.945	27.84	52.182	1.00	23.89
ATOM	1344	O	VAL	179	-4.350	27.87	52.070	1.00	22.84
ATOM	1345	N	LEU	180	-3.718	28.941	52.900	1.00	25.31
ATOM	1346	CA	LEU	180	-3.898	29.271	52.763	1.00	27.62
ATOM	1347	CB	LEU	180	-4.871	31.378	52.213	1.00	29.45
ATOM	1348	CG	LEU	180	-6.349	31.714	52.135	1.00	32.82
ATOM	1349	CD1	LEU	180	-7.138	31.541	52.147	1.00	31.62
ATOM	1350	CD2	LEU	180	-6.861	30.969	52.720	1.00	30.67
ATOM	1351	C	LEU	180	-2.357	32.961	52.398	1.00	27.37
ATOM	1352	O	LEU	180	-1.645	32.374	52.464	1.00	26.56
ATOM	1353	N	GLU	181	-2.952	32.388	52.235	1.00	28.04
ATOM	1354	CA	GLU	181	-0.745	32.097	52.131	1.00	10.09
ATOM	1355	CB	GLU	181	-0.121	32.181	52.123	1.00	10.49
ATOM	1356	CG	GLU	181	1.379	32.737	52.082	1.00	13.41
ATOM	1357	CH	GLU	181	2.419	32.986	49.664	1.00	15.66
ATOM	1358	OH1	GLU	181	2.787	32.77	49.976	1.00	15.41
ATOM	1359	OH2	GLU	181	3.123	32.77	49.743	1.00	18.77
ATOM	1360	C	GLU	181	-0.371	33.477	52.179	1.00	10.13
ATOM	1361	O	GLU	181	-1.465	33.879	49.714	1.00	11.04
ATOM	1362	N	YS	182	-0.184	34.537	51.474	1.00	10.43
ATOM	1363	CA	YS	182	-0.967	35.763	51.195	1.00	11.63
ATOM	1364	CB	YS	182	-0.916	36.076	50.111	1.00	11.93
ATOM	1365	SG	YS	182	-2.564	35.413	50.578	1.00	16.42
ATOM	1366	C	YS	182	-1.473	36.311	50.603	1.00	11.83
ATOM	1367	O	YS	182	-1.683	36.677	49.632	1.00	10.94
ATOM	1368	N	VAL	183	-2.222	36.790	52.897	1.00	11.97
ATOM	1369	CA	VAL	183	-3.577	37.185	52.614	1.00	14.24
ATOM	1370	CB	VAL	183	-1.673	38.083	52.571	1.00	13.56
ATOM	1371	CG1	VAL	183	-4.945	38.517	52.974	1.00	14.62
ATOM	1372	CG2	VAL	183	-5.399	36.889	52.944	1.00	15.73
ATOM	1373	C	VAL	183	-3.999	38.118	52.788	1.00	15.37
ATOM	1374	O	VAL	183	-3.476	37.779	52.879	1.00	16.35
ATOM	1375	N	PRO	184	-4.776	38.271	52.192	1.00	15.69
ATOM	1376	CA	PRO	184	-3.227	38.874	52.177	1.00	15.39
ATOM	1377	CB	PRO	184	-4.877	40.179	52.614	1.00	14.72
ATOM	1378	CB	PRO	184	-5.782	41.233	52.990	1.00	15.50
ATOM	1379	CG	PRO	184	-6.764	41.349	52.849	1.00	16.16
ATOM	1380	C	PRO	184	-5.478	42.476	54.874	1.00	13.29
ATOM	1381	O	PRO	184	-6.384	42.879	54.638	1.00	13.08
ATOM	1382	N	VAL	185	-4.445	39.724	56.032	1.00	13.66
ATOM	1383	CA	VAL	185	-5.447	39.124	55.167	1.00	13.09
ATOM	1384	CB	VAL	185	-4.417	39.396	55.184	1.00	13.17
ATOM	1385	CG1	VAL	185	-5.909	39.172	54.763	1.00	13.65
ATOM	1386	CG2	VAL	185	-3.415	41.079	58.177	1.00	11.75
ATOM	1387	C	VAL	185	-6.369	39.215	57.177	1.00	13.78
ATOM	1388	O	VAL	185	-7.559	39.166	57.139	1.00	13.51
ATOM	1389	N	GLU	186	-7.577	41.282	56.061	1.00	15.07
ATOM	1390	CA	GLU	186	-9.139	41.477	56.991	1.00	16.33
ATOM	1391	CB	GLU	186	-9.443	41.976	56.417	1.00	17.40
ATOM	1392	CG	GLU	186	-8.668	42.181	56.191	1.00	12.15
ATOM	1393	CD	GLU	186	-7.468	43.770	56.508	1.00	14.18
ATOM	1394	OE1	GLU	186	-6.741	42.740	56.533	1.00	13.77
ATOM	1395	OE2	GLU	186	-7.295	44.062	54.726	1.00	15.83
ATOM	1396	C	GLU	186	-9.712	43.789	56.208	1.00	15.05
ATOM	1397	O	GLU	186	-10.701	43.714	56.659	1.00	15.07
ATOM	1398	N	LEU	187	-9.174	48.776	55.931	1.00	14.36
ATOM	1399	CA	LEU	187	-9.713	47.811	54.186	1.00	13.21
ATOM	1400	CB	LEU	187	-9.673	47.871	52.469	1.00	15.04
ATOM	1401	CG	LEU	187	-9.927	47.732	51.607	1.00	16.14
ATOM	1402	CD1	LEU	187	-9.675	47.777	50.391	1.00	17.57
ATOM	1403	CD2	LEU	187	-10.473	46.136	51.867	1.00	16.78
ATOM	1404	C	LEU	187	-9.513	46.177	54.836	1.00	12.03
ATOM	1405	O	LEU	187	-10.411	45.785	54.839	1.00	10.51
ATOM	1406	N	ALA	188	-8.540	46.764	55.387	1.00	11.07
ATOM	1407	CA	ALA	188	-8.913	45.777	56.937	1.00	11.77
ATOM	1408	CB	ALA	188	-8.576	45.178	56.554	1.00	10.99
ATOM	1409	C	ALA	188	-8.979	44.772	57.182	1.00	10.77
ATOM	1410	O	ALA	188	-9.345	43.873	57.424	1.00	10.09
ATOM	1411	N	LYS	189	-9.396	45.780	57.876	1.00	12.15
ATOM	1412	CA	LYS	189	-10.332	45.755	58.990	1.00	13.17
ATOM	1413	CB	LYS	189	-10.573	47.119	59.673	1.00	15.16
ATOM	1414	CG	LYS	189	-9.321	47.677	60.131	1.00	11.17

ATOM	1415	CD	LYS	189	-9.644	39.151	63.826	1.00	44.52
ATOM	1416	CE	LYS	189	-8.375	39.807	61.361	1.00	46.20
ATOM	1417	NZ	LYS	189	-8.623	41.120	62.025	1.00	49.12
ATOM	1418	C	LYS	189	-11.672	35.201	59.520	1.00	32.13
ATOM	1419	O	LYS	189	-12.228	34.184	59.119	1.00	32.61
ATOM	1420	N	ARG	190	-12.193	35.172	57.477	1.00	32.46
ATOM	1421	CA	ARG	190	-13.478	35.347	56.887	1.00	37.08
ATOM	1422	CB	ARG	190	-13.837	36.172	55.650	1.00	34.06
ATOM	1423	CG	ARG	190	-14.921	37.652	55.906	1.00	37.30
ATOM	1424	CD	ARG	190	-14.306	38.174	54.854	1.00	36.35
ATOM	1425	NE	ARG	190	-14.261	38.346	53.528	1.00	38.64
ATOM	1426	CZ	ARG	190	-14.925	38.343	52.573	1.00	38.87
ATOM	1427	NH1	ARG	190	-16.242	38.362	52.364	1.00	37.74
ATOM	1428	NH2	ARG	190	-14.265	38.415	51.213	1.00	36.25
ATOM	1429	C	ARG	190	-13.483	33.869	56.508	1.00	31.06
ATOM	1430	O	ARG	190	-14.363	33.115	56.913	1.00	31.92
ATOM	1431	N	ILE	191	-12.488	37.466	55.723	1.00	31.60
ATOM	1432	CA	ILE	191	-12.391	32.081	55.283	1.00	31.50
ATOM	1433	CB	ILE	191	-11.197	31.887	54.312	1.00	31.14
ATOM	1434	CG1	ILE	191	-11.145	30.312	53.965	1.00	31.40
ATOM	1435	CG2	ILE	191	-11.315	31.734	53.697	1.00	31.61
ATOM	1436	CD1	ILE	191	-10.717	31.163	50.113	1.00	30.38
ATOM	1437	C	ILE	191	-13.145	31.137	56.461	1.00	30.60
ATOM	1438	O	ILE	191	-13.885	30.884	56.509	1.00	30.78
ATOM	1439	N	THR	192	-11.410	31.309	57.438	1.00	38.46
ATOM	1440	CA	THR	192	-11.190	30.673	58.597	1.00	38.93
ATOM	1441	CB	THR	192	-10.100	31.169	59.514	1.00	38.24
ATOM	1442	CG1	THR	192	-8.876	31.379	58.736	1.00	38.74
ATOM	1443	CG2	THR	192	-8.878	30.380	60.713	1.00	37.20
ATOM	1444	C	THR	192	-12.472	30.178	59.402	1.00	39.98
ATOM	1445	O	THR	192	-12.747	29.778	59.895	1.00	38.03
ATOM	1446	N	GLU	193	-13.157	31.142	59.518	1.00	33.93
ATOM	1447	CA	GLU	193	-14.587	32.351	60.245	1.00	33.82
ATOM	1448	CB	GLU	193	-15.021	32.145	60.666	1.00	36.65
ATOM	1449	CG	GLU	193	-14.225	33.113	61.731	1.00	37.53
ATOM	1450	CD	GLU	193	-14.789	34.112	62.047	1.00	38.68
ATOM	1451	OE1	GLU	193	-14.740	35.116	61.233	1.00	39.51
ATOM	1452	OE2	GLU	193	-15.284	35.132	63.234	1.00	37.01
ATOM	1453	C	GLU	193	-15.567	30.725	59.489	1.00	33.33
ATOM	1454	O	GLU	193	-16.392	29.174	60.023	1.00	31.17
ATOM	1455	N	ALA	194	-18.584	30.447	58.172	1.00	31.10
ATOM	1456	CA	ALA	194	-16.522	30.327	57.278	1.00	30.71
ATOM	1457	CB	ALA	194	-16.446	30.130	55.910	1.00	30.76
ATOM	1458	C	ALA	194	-16.352	29.418	57.140	1.00	30.69
ATOM	1459	O	ALA	194	-17.338	28.983	57.051	1.00	30.13
ATOM	1460	N	LEU	195	-15.106	28.353	57.123	1.00	39.16
ATOM	1461	CA	LEU	195	-14.846	28.128	56.967	1.00	37.82
ATOM	1462	CB	LEU	195	-13.585	28.704	56.173	1.00	38.36
ATOM	1463	CG	LEU	195	-13.422	27.386	54.805	1.00	37.73
ATOM	1464	CD1	LEU	195	-12.328	28.713	54.020	1.00	38.71
ATOM	1465	CD2	LEU	195	-14.725	27.288	54.034	1.00	30.26
ATOM	1466	C	LEU	195	-14.774	28.156	58.279	1.00	36.86
ATOM	1467	O	LEU	195	-14.289	28.658	59.290	1.00	36.31
ATOM	1468	N	ALA	196	-18.283	24.431	58.247	1.00	34.22
ATOM	1469	CA	ALA	196	-18.283	24.046	59.403	1.00	34.93
ATOM	1470	CB	ALA	196	-16.392	23.011	59.275	1.00	35.42
ATOM	1471	C	ALA	196	-13.928	23.351	59.464	1.00	35.57
ATOM	1472	O	ALA	196	-13.461	23.473	60.527	1.00	34.85
ATOM	1473	N	ILE	197	-13.307	23.174	58.399	1.00	35.00
ATOM	1474	CA	ILE	197	-12.003	22.527	58.325	1.00	33.99
ATOM	1475	CB	ILE	197	-11.698	22.911	56.800	1.00	32.76
ATOM	1476	CG1	ILE	197	-12.179	21.401	56.408	1.00	31.58
ATOM	1477	CG2	ILE	197	-11.782	21.156	53.776	1.00	32.43
ATOM	1478	CD1	ILE	197	-11.168	21.816	54.447	1.00	34.79
ATOM	1479	C	ILE	197	-10.918	21.505	58.632	1.00	34.38
ATOM	1480	O	ILE	197	-11.011	21.009	58.391	1.00	34.17
ATOM	1481	N	PRO	198	-9.847	21.001	55.140	1.00	34.33
ATOM	1482	CA	PRO	198	-9.573	21.616	58.681	1.00	31.43
ATOM	1483	CB	PRO	198	-8.763	20.903	59.668	1.00	34.80
ATOM	1484	CG	PRO	198	-7.840	21.994	60.148	1.00	34.50
ATOM	1485	CD	PRO	198	-8.104	21.638	59.906	1.00	36.07
ATOM	1486	C	PRO	198	-8.070	21.579	58.148	1.00	36.71
ATOM	1487	O	PRO	198	-7.840	23.965	55.445	1.00	34.75
ATOM	1488	N	VAL	199	-7.765	25.859	58.654	1.00	22.66
ATOM	1489	CA	VAL	199	-7.090	26.628	57.633	1.00	21.26
ATOM	1490	CB	VAL	199	-7.840	27.952	57.147	1.00	21.86
ATOM	1491	CG1	VAL	199	-7.174	28.153	56.119	1.00	21.66

ATOM	1492	CG2	VAL	199	-9.261	27.651	56.841	1.00	23.56
ATOM	1493	C	VAL	199	-5.677	26.948	58.112	1.00	22.30
ATOM	1494	O	VAL	199	-5.483	27.514	59.131	1.00	21.12
ATOM	1495	N	ILE	200	-4.683	26.568	57.311	1.00	21.02
ATOM	1496	CA	ILE	200	-3.286	26.793	57.632	1.00	20.92
ATOM	1497	CB	ILE	200	-2.435	25.875	57.265	1.00	22.17
ATOM	1498	CG2	ILE	200	-0.856	25.855	57.544	1.00	21.64
ATOM	1499	CG1	ILE	200	-2.435	24.746	58.015	1.00	21.31
ATOM	1500	CD1	ILE	200	-2.132	23.966	57.627	1.00	26.13
ATOM	1501	C	ILE	200	-2.800	27.484	56.821	1.00	21.27
ATOM	1502	O	ILE	200	-2.800	27.457	55.530	1.00	19.72
ATOM	1503	N	GLY	201	-2.344	29.525	57.505	1.00	21.83
ATOM	1504	CA	GLY	201	-1.543	30.199	56.733	1.00	21.11
ATOM	1505	C	GLY	201	-0.542	30.776	56.733	1.00	21.22
ATOM	1506	O	GLY	201	0.260	29.515	57.546	1.00	20.91
ATOM	1507	N	ILE	202	0.153	31.335	55.668	1.00	20.82
ATOM	1508	CA	ILE	202	1.449	31.457	55.434	1.00	23.63
ATOM	1509	CB	ILE	202	2.135	30.774	54.412	1.00	25.53
ATOM	1510	CG2	ILE	202	1.139	30.26	53.233	1.00	25.11
ATOM	1511	CG1	ILE	202	3.431	30.091	52.932	1.00	16.32
ATOM	1512	CD1	ILE	202	4.137	11.25	54.943	1.00	15.60
ATOM	1513	C	ILE	202	1.401	31.54	54.812	1.00	23.67
ATOM	1514	O	ILE	202	1.438	31.521	53.647	1.00	24.24
ATOM	1515	N	GLY	203	1.672	31.760	55.647	1.00	24.85
ATOM	1516	CA	GLY	203	1.415	30.130	55.177	1.00	24.91
ATOM	1517	C	GLY	203	0.157	30.780	55.101	1.00	24.72
ATOM	1518	O	GLY	203	-0.132	30.447	54.373	1.00	26.70
ATOM	1519	N	ALA	204	-0.335	34.461	56.031	1.00	24.39
ATOM	1520	CA	ALA	204	-2.334	35.308	56.131	1.00	25.25
ATOM	1521	CB	ALA	204	-2.329	34.113	55.703	1.00	25.27
ATOM	1522	C	ALA	204	-2.467	33.743	57.531	1.00	25.20
ATOM	1523	O	ALA	204	-3.448	33.701	57.837	1.00	26.15
ATOM	1524	N	GLY	205	-1.345	36.156	58.346	1.00	26.07
ATOM	1525	CA	GLY	205	-1.798	36.597	58.633	1.00	25.17
ATOM	1526	C	GLY	205	-1.552	36.459	60.637	1.00	23.65
ATOM	1527	O	GLY	205	-1.53	34.294	60.316	1.00	24.90
ATOM	1528	N	ASN	206	-2.145	36.751	61.931	1.00	21.53
ATOM	1529	CA	ASN	206	-2.50	34.771	62.833	1.00	21.06
ATOM	1530	CB	ASN	206	-1.339	35.259	64.037	1.00	23.67
ATOM	1531	CG	ASN	206	-2.112	36.421	64.913	1.00	23.21
ATOM	1532	OD1	ASN	206	-2.116	36.741	65.031	1.00	23.76
ATOM	1533	C	ASN	206	-3.293	37.018	64.131	1.00	24.74
ATOM	1534	O	ASN	206	-3.435	34.167	63.233	1.00	22.53
ATOM	1535	O	ASN	206	-4.127	33.788	64.246	1.00	21.69
ATOM	1536	N	VAL	207	-4.480	34.786	62.305	1.00	21.94
ATOM	1537	CA	VAL	207	-6.458	31.496	62.446	1.00	23.84
ATOM	1538	CB	VAL	207	-6.453	30.313	61.663	1.00	26.22
ATOM	1539	CG1	VAL	207	-8.423	30.336	62.037	1.00	29.03
ATOM	1540	CG2	VAL	207	-6.488	30.325	61.981	1.00	27.63
ATOM	1541	C	VAL	207	-6.453	31.191	61.963	1.00	24.32
ATOM	1542	O	VAL	207	-7.563	32.600	62.103	1.00	23.30
ATOM	1543	N	THR	208	-5.413	32.431	61.197	1.00	23.32
ATOM	1544	CA	THR	208	-5.479	31.086	60.811	1.00	23.51
ATOM	1545	CB	THR	208	-4.840	30.708	59.643	1.00	23.12
ATOM	1546	CG1	THR	208	-3.331	30.977	60.103	1.00	21.10
ATOM	1547	CG2	THR	208	-5.196	31.902	59.463	1.00	23.13
ATOM	1548	C	THR	208	-5.661	30.053	61.919	1.00	24.29
ATOM	1549	O	THR	208	-5.125	30.131	62.935	1.00	24.25
ATOM	1550	N	ASP	209	-6.185	28.861	61.657	1.00	22.58
ATOM	1551	CA	ASP	209	-6.164	27.788	61.643	1.00	22.69
ATOM	1552	CB	ASP	209	-7.091	26.665	62.194	1.00	22.67
ATOM	1553	CG	ASP	209	-8.501	27.146	61.561	1.00	25.07
ATOM	1554	OD1	ASP	209	-8.130	27.631	62.331	1.00	23.71
ATOM	1555	OD2	ASP	209	-8.480	27.056	60.506	1.00	24.01
ATOM	1556	C	ASP	209	-4.734	27.244	62.739	1.00	21.49
ATOM	1557	O	ASP	209	-4.431	26.657	63.663	1.00	21.31
ATOM	1558	N	GLY	210	-3.928	27.444	61.119	1.00	21.74
ATOM	1559	CA	GLY	210	-3.569	26.856	61.391	1.00	20.36
ATOM	1560	C	GLY	210	-1.623	27.775	61.437	1.00	20.58
ATOM	1561	O	GLY	210	-1.049	28.651	61.737	1.00	21.05
ATOM	1562	N	GLN	211	-0.332	27.473	61.737	1.00	23.83
ATOM	1563	CA	GLN	211	-0.693	28.192	61.737	1.00	21.52
ATOM	1564	CB	GLN	211	1.453	29.119	61.737	1.00	22.57
ATOM	1565	CG	GLN	211	-0.626	30.333	61.737	1.00	19.78
ATOM	1566	CD	GLN	211	0.133	31.229	62.913	1.00	21.63
ATOM	1567	OE1	GLN	211	-0.896	31.663	61.913	1.00	23.63
ATOM	1568	NE2	GLN	211	-1.139	31.608	61.913	1.00	21.71

ATOM	1569	C	GLN	211	1.731	27.250	59.761	1.00	21.50
ATOM	1570	O	GLN	211	1.886	26.117	60.199	1.00	20.81
ATOM	1571	N	ILE	212	2.344	27.724	58.700	1.00	22.48
ATOM	1572	CA	ILE	212	3.331	26.921	58.023	1.00	26.35
ATOM	1573	CB	ILE	212	2.755	26.171	56.799	1.00	28.17
ATOM	1574	CG1	ILE	212	2.434	27.128	55.660	1.00	29.17
ATOM	1575	CG2	ILE	212	3.725	25.075	56.544	1.00	29.11
ATOM	1576	CD1	ILE	212	3.031	24.015	55.457	1.00	31.12
ATOM	1577	C	ILE	212	4.444	27.829	57.588	1.00	28.11
ATOM	1578	O	ILE	212	4.237	29.011	57.519	1.00	29.09
ATOM	1579	N	LEU	213	5.706	27.287	57.556	1.00	29.45
ATOM	1580	CA	LEU	213	6.870	28.060	57.155	1.00	31.99
ATOM	1581	CB	LEU	213	7.432	29.880	58.360	1.00	33.40
ATOM	1582	CG	LEU	213	7.351	30.415	58.241	1.00	33.83
ATOM	1583	CH1	LEU	213	8.119	30.971	59.435	1.00	32.93
ATOM	1584	CH2	LEU	213	7.941	30.951	58.930	1.00	31.79
ATOM	1585	C	LEU	213	7.970	32.159	56.601	1.00	32.15
ATOM	1586	O	LEU	213	8.143	28.005	57.076	1.00	31.38
ATOM	1587	N	VAL	214	6.639	27.616	55.600	1.00	31.01
ATOM	1588	CA	VAL	214	9.808	28.941	55.025	1.00	30.31
ATOM	1589	CB	VAL	214	10.120	27.510	53.685	1.00	31.87
ATOM	1590	CH1	VAL	214	11.317	28.759	53.174	1.00	32.34
ATOM	1591	CH2	VAL	214	9.136	27.510	52.619	1.00	32.39
ATOM	1592	C	VAL	214	10.984	28.976	56.060	1.00	28.15
ATOM	1593	O	VAL	214	11.440	28.054	56.362	1.00	28.96
ATOM	1594	N	MET	215	11.268	21.819	56.614	1.00	25.80
ATOM	1595	CA	MET	215	12.039	21.127	57.652	1.00	24.04
ATOM	1596	CB	MET	215	12.617	24.154	57.957	1.00	21.67
ATOM	1597	CG	MET	215	13.046	21.449	56.708	1.00	21.44
ATOM	1598	SD	MET	215	14.311	21.214	57.054	1.00	19.28
ATOM	1599	C	MET	215	15.754	21.247	56.942	1.00	20.16
ATOM	1600	O	MET	215	13.575	28.460	57.213	1.00	21.77
ATOM	1601	C	MET	215	14.255	27.027	56.114	1.00	24.19
ATOM	1602	N	HIS	216	13.501	26.488	55.966	1.00	21.61
ATOM	1603	CA	HIS	216	15.122	27.164	55.510	1.00	25.02
ATOM	1604	CB	HIS	216	15.342	26.890	54.015	1.00	21.17
ATOM	1605	CG	HIS	216	15.707	25.463	53.711	1.00	21.97
ATOM	1606	CD	HIS	216	14.839	24.163	53.511	1.00	22.81
ATOM	1607	NE1	HIS	216	17.314	28.638	53.956	1.00	24.46
ATOM	1608	CH1	HIS	216	17.635	23.730	53.479	1.00	23.43
ATOM	1609	NE2	HIS	216	15.788	23.194	53.455	1.00	26.42
ATOM	1610	C	HIS	216	15.132	28.039	55.812	1.00	26.05
ATOM	1611	O	HIS	216	16.195	29.277	55.872	1.00	25.85
ATOM	1612	N	ASP	217	13.949	29.158	56.000	1.00	27.68
ATOM	1613	CA	ASP	217	13.848	30.661	56.331	1.00	31.25
ATOM	1614	CB	ASP	217	12.576	31.331	55.713	1.00	33.16
ATOM	1615	CG	ASP	217	12.653	31.406	54.200	1.00	35.27
ATOM	1616	OD1	ASP	217	13.623	32.016	53.700	1.00	36.37
ATOM	1617	OD2	ASP	217	12.735	30.416	53.337	1.00	37.69
ATOM	1618	C	ASP	217	13.827	30.835	57.815	1.00	31.92
ATOM	1619	O	ASP	217	14.353	31.803	58.344	1.00	32.35
ATOM	1620	N	ALA	218	13.225	23.353	58.534	1.00	10.86
ATOM	1621	CA	ALA	218	13.121	29.382	59.931	1.00	30.59
ATOM	1622	CB	ALA	218	12.208	28.761	60.431	1.00	10.22
ATOM	1623	C	ALA	218	14.471	29.753	60.639	1.00	11.33
ATOM	1624	O	ALA	218	14.393	30.189	61.831	1.00	31.23
ATOM	1625	N	PHE	219	15.182	29.267	59.942	1.00	30.28
ATOM	1626	CA	PHE	219	16.494	29.117	60.539	1.00	29.63
ATOM	1627	CB	PHE	219	17.202	27.640	60.598	1.00	23.92
ATOM	1628	CG	PHE	219	16.148	26.716	61.177	1.00	30.71
ATOM	1629	CH1	PHE	219	15.529	27.052	60.335	1.00	31.14
ATOM	1630	CH2	PHE	219	15.781	25.542	60.534	1.00	31.43
ATOM	1631	CD1	PHE	219	14.562	26.213	60.935	1.00	31.73
ATOM	1632	CD2	PHE	219	14.811	24.714	61.067	1.00	33.41
ATOM	1633	CE	PHE	219	14.702	25.011	60.275	1.00	31.77
ATOM	1634	C	PHE	219	17.881	29.543	59.899	1.00	29.17
ATOM	1635	O	PHE	219	17.059	29.631	59.368	1.00	29.21
ATOM	1636	N	GLY	220	17.458	1.014	59.237	1.00	24.74
ATOM	1637	CA	GLY	220	18.190	1.839	58.550	1.00	23.75
ATOM	1638	C	GLY	220	18.597	1.185	57.671	1.00	30.84
ATOM	1639	O	GLY	220	20.507	1.001	57.485	1.00	30.29
ATOM	1640	N	ILE	221	18.990	30.110	57.273	1.00	30.94
ATOM	1641	CA	ILE	221	19.754	29.380	57.053	1.00	30.23
ATOM	1642	CB	ILE	221	19.770	27.910	55.896	1.00	28.54
ATOM	1643	CG1	ILE	221	20.167	27.117	54.708	1.00	26.89
ATOM	1644	CG2	ILE	221	19.088	27.259	57.063	1.00	27.41
ATOM	1645	CD1	ILE	221	19.654	25.274	57.176	1.00	26.63

ATOM	1646	C	ILE	221	19.759	30.060	54.691	1.00	31.62
ATOM	1647	O	ILE	221	20.759	30.178	54.041	1.00	30.47
ATOM	1648	N	THR	222	18.590	30.528	54.275	1.00	33.36
ATOM	1649	CA	THR	222	18.453	31.193	52.989	1.00	37.21
ATOM	1650	CB	THR	222	16.981	31.341	52.555	1.00	36.85
ATOM	1651	CG1	THR	222	16.249	31.088	52.448	1.00	39.18
ATOM	1652	CG2	THR	222	16.335	29.051	52.594	1.00	35.88
ATOM	1653	C	THR	222	18.985	32.816	51.024	1.00	39.88
ATOM	1654	O	THR	222	18.750	33.345	53.997	1.00	39.16
ATOM	1655	N	GLY	223	19.713	32.590	51.976	1.00	43.16
ATOM	1656	CA	GLA	223	20.182	34.310	51.848	1.00	47.51
ATOM	1657	C	GLA	223	20.126	33.168	53.103	1.00	50.12
ATOM	1658	O	GLY	223	20.987	34.786	54.116	1.00	51.84
ATOM	1659	N	GLY	224	19.820	36.327	53.051	1.00	51.89
ATOM	1660	CA	GLY	224	19.863	37.102	54.207	1.00	54.05
ATOM	1661	C	GLY	224	18.124	37.331	54.421	1.00	56.18
ATOM	1662	O	GLY	224	17.767	37.324	55.526	1.00	56.52
ATOM	1663	N	HIS	225	17.802	38.385	53.371	1.00	57.80
ATOM	1664	CA	HIS	225	16.120	38.185	53.453	1.00	58.81
ATOM	1665	CB	HIS	225	16.317	40.359	52.470	1.00	61.50
ATOM	1666	CG	HIS	225	16.419	41.315	51.821	1.00	63.81
ATOM	1667	CD	HIS	225	16.336	41.316	51.144	1.00	65.15
ATOM	1668	ND1	HIS	225	15.128	41.351	54.002	1.00	65.20
ATOM	1669	HE1	HIS	225	18.125	43.387	54.096	1.00	65.32
ATOM	1670	NE2	HIS	225	18.980	41.356	52.993	1.00	66.01
ATOM	1671	C	HIS	225	15.140	38.157	51.118	1.00	57.84
ATOM	1672	O	HIS	225	15.737	38.134	52.074	1.00	58.68
ATOM	1673	N	ILE	226	14.847	35.497	54.201	1.00	56.11
ATOM	1674	CA	ILE	226	15.325	36.113	54.080	1.00	55.17
ATOM	1675	CB	ILE	226	14.851	37.340	53.336	1.00	55.10
ATOM	1676	CG2	ILE	226	14.888	34.865	53.601	1.00	54.36
ATOM	1677	CG1	ILE	226	15.100	36.608	56.558	1.00	54.31
ATOM	1678	CD1	ILE	226	15.109	37.342	57.885	1.00	54.50
ATOM	1679	C	ILE	226	15.141	37.359	53.821	1.00	53.36
ATOM	1680	O	ILE	226	17.199	38.116	54.001	1.00	54.01
ATOM	1681	N	PRO	227	11.473	34.674	53.537	1.00	50.50
ATOM	1682	CD	PRO	227	11.136	35.223	52.167	1.00	49.09
ATOM	1683	CA	PRO	227	13.106	37.361	53.101	1.00	48.80
ATOM	1684	CB	PRO	227	9.119	38.342	52.563	1.00	48.87
ATOM	1685	CG	PRO	227	9.147	38.351	53.253	1.00	49.81
ATOM	1686	C	PRO	227	9.615	38.345	54.334	1.00	46.59
ATOM	1687	O	PRO	227	9.160	37.026	55.463	1.00	46.32
ATOM	1688	N	LYS	228	8.129	39.101	54.103	1.00	44.27
ATOM	1689	CA	LYS	228	8.222	39.850	55.191	1.00	41.96
ATOM	1690	CB	LYS	228	7.160	40.992	54.643	1.00	43.42
ATOM	1691	CG	LYS	228	8.109	42.114	54.016	1.00	47.18
ATOM	1692	CD	LYS	228	8.110	41.736	52.673	1.00	49.90
ATOM	1693	DE	LYS	228	9.198	42.906	52.043	1.00	51.00
ATOM	1694	NZ	LYS	228	10.607	42.601	50.674	1.00	51.75
ATOM	1695	C	LYS	228	7.167	38.987	56.111	1.00	39.05
ATOM	1696	O	LYS	228	7.312	39.258	57.297	1.00	39.22
ATOM	1697	N	PRO	229	6.187	37.917	55.561	1.00	35.73
ATOM	1698	CA	PRO	229	5.125	37.052	56.353	1.00	31.21
ATOM	1699	CB	PRO	229	4.183	36.397	55.453	1.00	31.42
ATOM	1700	CG	PRO	229	5.160	35.343	54.361	1.00	31.78
ATOM	1701	CD1	PRO	229	5.108	34.253	54.623	1.00	32.94
ATOM	1702	CD2	PRO	229	5.154	36.030	53.061	1.00	34.15
ATOM	1703	CE1	PRO	229	6.142	34.837	53.603	1.00	33.72
ATOM	1704	CE2	PRO	229	6.186	35.248	52.931	1.00	33.39
ATOM	1705	CZ	PRO	229	6.129	34.958	52.309	1.00	33.05
ATOM	1706	C	PRO	229	6.107	35.985	57.116	1.00	23.23
ATOM	1707	O	PRO	229	6.128	35.261	57.931	1.00	28.17
ATOM	1708	N	ALA	230	8.123	35.993	58.836	1.00	26.34
ATOM	1709	CA	ALA	230	8.148	34.907	57.544	1.00	24.57
ATOM	1710	CB	ALA	230	9.133	34.304	56.552	1.00	26.85
ATOM	1711	C	ALA	230	9.105	35.484	58.734	1.00	26.01
ATOM	1712	O	ALA	230	9.143	36.790	58.865	1.00	25.21
ATOM	1713	N	LYS	231	10.190	34.536	59.600	1.00	24.27
ATOM	1714	CA	LYS	231	10.138	34.900	59.780	1.00	24.53
ATOM	1715	CB	LYS	231	11.198	35.135	61.183	1.00	25.48
ATOM	1716	CG	LYS	231	10.809	35.476	61.285	1.00	25.37
ATOM	1717	CD	LYS	231	10.834	35.536	64.455	1.00	28.18
ATOM	1718	CE	LYS	231	10.372	35.783	63.183	1.00	27.43
ATOM	1719	NE	LYS	231	11.434	35.935	61.923	1.00	29.23
ATOM	1720	C	LYS	231	11.419	33.937	61.116	1.00	23.25
ATOM	1721	O	LYS	231	11.674	33.720	61.657	1.00	25.31
ATOM	1722	N	ASN	232	11.111	34.431	61.413	1.00	22.11

ATOM	1723	CA	ASN	232	14.238	33.617	61.775	1.00	22.68
ATOM	1724	CR	ASN	232	15.550	34.325	61.427	1.00	22.74
ATOM	1725	CG	ASN	232	16.770	35.476	61.711	1.00	22.28
ATOM	1726	OD1	ASN	232	16.716	32.519	62.477	1.00	22.05
ATOM	1727	ND1	ASN	232	17.897	32.839	61.107	1.00	21.01
ATOM	1728	C	ASN	232	14.157	32.367	63.287	1.00	22.41
ATOM	1729	O	ASN	232	14.441	34.254	63.087	1.00	22.40
ATOM	1730	N	PHE	233	13.754	31.117	63.676	1.00	20.06
ATOM	1731	CA	PHE	233	12.646	31.816	63.087	1.00	21.57
ATOM	1732	CB	PHE	233	11.627	30.692	63.284	1.00	20.88
ATOM	1733	CG	PHE	233	11.197	31.171	63.107	1.00	20.63
ATOM	1734	CD1	PHE	233	10.614	31.161	63.847	1.00	21.32
ATOM	1735	CD2	PHE	233	10.418	31.449	63.131	1.00	20.65
ATOM	1736	CE1	PHE	233	9.389	31.567	62.677	1.00	21.66
ATOM	1737	CE2	PHE	233	9.102	31.907	62.057	1.00	21.27
ATOM	1738	CZ	PHE	233	8.136	31.946	63.76	1.00	19.83
ATOM	1739	C	PHE	233	14.973	31.401	63.697	1.00	21.41
ATOM	1740	O	PHE	233	15.116	31.396	63.941	1.00	22.96
ATOM	1741	N	LEU	234	13.943	31.63	64.857	1.00	22.62
ATOM	1742	CA	LEU	234	12.142	30.621	63.777	1.00	24.52
ATOM	1743	CB	LEU	234	11.011	29.894	63.117	1.00	23.62
ATOM	1744	CG	LEU	234	10.487	29.177	64.111	1.00	22.58
ATOM	1745	CD1	LEU	234	10.717	28.389	63.111	1.00	21.34
ATOM	1746	CD2	LEU	234	20.111	28.87	63.177	1.00	25.06
ATOM	1747	C	LEU	234	18.047	31.859	63.777	1.00	26.65
ATOM	1748	O	LEU	234	18.717	31.801	63.776	1.00	35.49
ATOM	1749	N	ALA	235	12.958	31.941	64.996	1.00	36.32
ATOM	1750	CA	ALA	235	14.631	34.117	63.367	1.00	36.40
ATOM	1751	CB	ALA	235	18.174	31.217	64.367	1.00	37.16
ATOM	1752	C	ALA	235	18.417	34.577	63.777	1.00	40.32
ATOM	1753	O	ALA	235	18.391	34.907	63.417	1.00	40.66
ATOM	1754	N	GLU	236	12.173	34.361	63.14	1.00	43.98
ATOM	1755	CA	GLU	236	14.731	34.681	63.497	1.00	47.19
ATOM	1756	CB	GLU	236	13.187	34.114	63.777	1.00	48.66
ATOM	1757	CG	GLU	236	11.811	34.367	63.777	1.00	51.18
ATOM	1758	CH	GLU	236	11.177	33.477	63.541	1.00	52.60
ATOM	1759	OE1	GLU	236	2.174	33.117	63.211	1.00	53.81
ATOM	1760	OE2	GLU	236	2.171	33.961	62.767	1.00	53.10
ATOM	1761	C	GLU	236	13.611	34.117	63.777	1.00	45.66
ATOM	1762	O	GLU	236	10.174	34.747	70.136	1.00	49.42
ATOM	1763	N	THR	237	13.691	31.117	63.397	1.00	42.40
ATOM	1764	CA	THR	237	13.471	31.967	71.217	1.00	49.62
ATOM	1765	CB	THR	237	13.668	30.711	70.567	1.00	50.19
ATOM	1766	OG1	THR	237	13.164	28.967	71.541	1.00	52.65
ATOM	1767	CG2	THR	237	13.147	28.894	63.457	1.00	51.76
ATOM	1768	C	THR	237	14.732	31.567	63.541	1.00	49.44
ATOM	1769	O	THR	237	23.419	31.277	63.757	1.00	49.89
ATOM	1770	N	GLY	238	23.174	30.307	63.357	1.00	46.44
ATOM	1771	CA	GLY	238	22.411	28.817	63.217	1.00	42.67
ATOM	1772	C	GLY	238	21.779	28.317	63.057	1.00	41.05
ATOM	1773	O	GLY	238	22.385	27.667	63.797	1.00	41.30
ATOM	1774	N	ASP	239	23.174	27.717	63.194	1.00	37.96
ATOM	1775	CA	ASP	239	19.69	26.317	63.057	1.00	34.93
ATOM	1776	CB	ASP	239	13.448	25.717	70.147	1.00	38.61
ATOM	1777	CG	ASP	239	14.115	24.217	70.397	1.00	41.64
ATOM	1778	OD1	ASP	239	13.167	23.917	71.176	1.00	42.16
ATOM	1779	OD2	ASP	239	23.411	23.417	71.587	1.00	45.62
ATOM	1780	C	ASP	239	13.133	26.017	63.162	1.00	31.17
ATOM	1781	O	ASP	239	17.661	26.617	63.370	1.00	28.67
ATOM	1782	N	ILE	240	13.776	23.117	63.164	1.00	25.89
ATOM	1783	CA	ILE	240	17.844	24.617	63.252	1.00	22.73
ATOM	1784	CB	ILE	240	13.776	23.617	63.132	1.00	21.79
ATOM	1785	CG1	ILE	240	17.09	23.517	63.156	1.00	17.59
ATOM	1786	CG2	ILE	240	13.466	21.517	63.265	1.00	21.61
ATOM	1787	CD1	ILE	240	23.742	23.617	63.167	1.00	21.65
ATOM	1788	C	ILE	240	13.776	24.317	63.070	1.00	18.37
ATOM	1789	O	ILE	240	13.145	24.717	63.719	1.00	21.10
ATOM	1790	N	ARG	241	16.408	23.317	63.870	1.00	19.73
ATOM	1791	CA	ARG	241	13.637	21.717	63.592	1.00	19.91
ATOM	1792	CB	ARG	241	16.167	21.617	63.472	1.00	18.87
ATOM	1793	CG	ARG	241	16.541	21.317	63.619	1.00	19.39
ATOM	1794	CH	ARG	241	17.766	21.317	63.474	1.00	21.17
ATOM	1795	NE	ARG	241	17.481	18.037	63.692	1.00	22.98
ATOM	1796	C	ARG	241	18.431	17.977	63.675	1.00	24.19
ATOM	1797	NH1	ARG	241	19.063	19.017	63.492	1.00	25.78
ATOM	1798	NH2	ARG	241	18.444	16.817	63.117	1.00	24.48
ATOM	1799	C	ARG	241	14.764	23.617	63.417	1.00	20.33

ATOM	1800	O	ARG	241	13.727	23.803	69.520	1.00	19.66
ATOM	1801	N	ALA	242	15.730	24.707	70.034	1.00	19.52
ATOM	1802	CA	ALA	242	15.173	25.771	70.632	1.00	19.63
ATOM	1803	CB	ALA	242	16.227	26.580	71.524	1.00	20.26
ATOM	1804	C	ALA	242	14.312	26.662	69.896	1.00	19.55
ATOM	1805	O	ALA	242	13.213	27.123	70.267	1.00	21.30
ATOM	1806	N	ALA	243	14.804	26.854	68.676	1.00	18.14
ATOM	1807	CA	ALA	243	14.074	27.700	67.767	1.00	18.54
ATOM	1808	CB	ALA	243	14.918	27.544	66.457	1.00	18.09
ATOM	1809	C	ALA	243	12.748	27.031	67.326	1.00	19.51
ATOM	1810	O	ALA	243	11.751	27.701	67.180	1.00	20.19
ATOM	1811	N	VAL	244	12.769	25.710	67.157	1.00	21.10
ATOM	1812	CA	VAL	244	11.514	24.969	66.818	1.00	19.17
ATOM	1813	CB	VAL	244	11.842	23.453	66.652	1.00	18.81
ATOM	1814	CG1	VAL	244	10.536	22.668	66.538	1.00	18.20
ATOM	1815	CG2	VAL	244	12.671	23.245	65.361	1.00	17.47
ATOM	1816	C	VAL	244	10.511	25.146	67.927	1.00	20.06
ATOM	1817	O	VAL	244	9.336	25.348	67.660	1.00	18.36
ATOM	1818	N	LEU	245	10.973	25.073	69.174	1.00	21.66
ATOM	1819	CA	LEU	245	10.063	25.127	70.197	1.00	21.32
ATOM	1820	CB	LEU	245	10.730	24.507	71.335	1.00	21.31
ATOM	1821	CG	LEU	245	11.118	23.427	71.768	1.00	22.58
ATOM	1822	CD	LEU	245	11.412	23.053	73.369	1.00	23.04
ATOM	1823	NE	LEU	245	12.697	23.074	73.608	1.00	23.83
ATOM	1824	CZ	LEU	245	13.930	23.291	73.775	1.00	23.75
ATOM	1825	NH1	LEU	245	14.116	22.734	72.847	1.00	20.29
ATOM	1826	NH2	LEU	245	14.980	23.921	73.896	1.00	18.20
ATOM	1827	C	LEU	245	9.435	26.617	70.362	1.00	21.21
ATOM	1828	O	LEU	245	8.236	26.747	70.365	1.00	21.34
ATOM	1829	N	ILE	246	10.231	27.653	70.695	1.00	22.60
ATOM	1830	CA	ILE	246	9.740	29.024	70.122	1.00	23.84
ATOM	1831	CB	ILE	246	10.877	30.313	69.719	1.00	23.46
ATOM	1832	CG	ILE	246	10.464	31.464	70.676	1.00	23.63
ATOM	1833	CD	ILE	246	11.632	32.399	70.056	1.00	23.48
ATOM	1834	CE1	ILE	246	12.602	32.222	70.302	1.00	23.33
ATOM	1835	NEH	ILE	246	11.639	33.404	69.185	1.00	24.34
ATOM	1836	C	ILE	246	8.633	29.220	69.036	1.00	24.20
ATOM	1837	O	ILE	246	7.634	29.889	69.245	1.00	23.35
ATOM	1838	C	TYR	247	6.742	28.651	67.764	1.00	23.96
ATOM	1839	CA	TYR	247	7.939	26.751	66.761	1.00	21.66
ATOM	1840	CB	TYR	247	8.571	28.037	65.328	1.00	18.75
ATOM	1841	CG	TYR	247	7.539	27.795	64.119	1.00	18.83
ATOM	1842	CD1	TYR	247	6.815	23.837	63.139	1.00	19.49
ATOM	1843	CE1	TYR	247	5.832	23.612	62.385	1.00	21.16
ATOM	1844	CD2	TYR	247	7.328	26.517	63.331	1.00	21.25
ATOM	1845	CE2	TYR	247	6.460	25.281	62.376	1.00	21.03
ATOM	1846	CH	TYR	247	5.139	27.327	62.378	1.00	19.79
ATOM	1847	OH	TYR	247	4.832	27.045	61.388	1.00	20.47
ATOM	1848	C	TYR	247	6.673	23.125	67.139	1.00	21.28
ATOM	1849	O	TYR	247	5.639	23.723	67.126	1.00	21.42
ATOM	1850	N	MET	248	6.746	26.929	67.732	1.00	20.24
ATOM	1851	CA	MET	248	5.556	26.219	68.238	1.00	21.53
ATOM	1852	CB	MET	248	5.751	24.872	68.834	1.00	21.82
ATOM	1853	CG	MET	248	6.436	23.815	67.882	1.00	21.40
ATOM	1854	SD	MET	248	7.248	22.415	68.688	1.00	22.67
ATOM	1855	CE	MET	248	5.838	21.537	68.370	1.00	24.87
ATOM	1856	C	MET	248	4.786	27.649	69.293	1.00	22.86
ATOM	1857	O	MET	248	3.554	27.195	69.231	1.00	21.83
ATOM	1858	N	GLA	249	5.518	27.606	70.247	1.00	21.40
ATOM	1859	CA	GLA	249	4.838	28.435	71.399	1.00	21.20
ATOM	1860	CB	GLA	249	5.936	28.738	70.369	1.00	21.22
ATOM	1861	C	GLA	249	4.752	29.337	71.177	1.00	21.43
ATOM	1862	O	GLA	249	3.439	29.379	71.103	1.00	22.73
ATOM	1863	N	GLU	250	4.969	29.448	69.970	1.00	22.09
ATOM	1864	CA	GLU	250	4.469	31.797	69.433	1.00	23.27
ATOM	1865	CB	GLU	250	5.349	32.314	69.649	1.00	22.94
ATOM	1866	CG	GLU	250	6.413	32.633	69.443	1.00	24.15
ATOM	1867	CD	GLU	250	7.329	33.806	69.923	1.00	24.35
ATOM	1868	CE1	GLU	250	7.349	34.149	69.719	1.00	23.60
ATOM	1869	CE2	GLU	250	6.381	34.344	69.729	1.00	23.39
ATOM	1870	C	GLU	250	5.241	31.538	69.558	1.00	23.21
ATOM	1871	O	GLU	250	3.199	31.144	69.448	1.00	23.11
ATOM	1872	N	VAL	251	3.703	31.137	67.935	1.00	22.87
ATOM	1873	CA	VAL	251	1.437	30.135	67.094	1.00	24.81
ATOM	1874	CB	VAL	251	2.114	29.889	66.199	1.00	24.31
ATOM	1875	CG	VAL	251	2.827	28.171	65.431	1.00	23.68
ATOM	1876	CD	VAL	251	3.237	28.117	65.134	1.00	23.83

ATOM	1877	C	VAL	251	-0.692	23.927	67.970	1.00	25.72
ATOM	1878	O	VAL	251	-0.455	23.524	67.731	1.00	26.34
ATOM	1879	N	GLU	252	-0.425	29.085	68.990	1.00	25.68
ATOM	1880	CA	GLU	252	-0.191	28.804	69.885	1.00	28.97
ATOM	1881	CB	GLU	252	-0.866	28.687	70.842	1.00	31.63
ATOM	1882	CG	GLU	252	-1.176	28.268	71.762	1.00	33.49
ATOM	1883	CD	GLU	252	-0.739	26.078	72.637	1.00	30.81
ATOM	1884	OE1	GLU	252	-1.555	28.730	73.513	1.00	41.12
ATOM	1885	OE2	GLU	252	-0.443	26.486	72.438	1.00	41.27
ATOM	1886	C	GLU	252	-0.717	29.006	70.686	1.00	24.30
ATOM	1887	O	GLU	252	-1.471	30.142	71.352	1.00	28.12
ATOM	1888	N	SEP	253	-0.233	30.930	70.922	1.00	29.46
ATOM	1889	CA	SEP	253	-0.058	32.138	71.681	1.00	32.10
ATOM	1890	CB	SEP	253	-1.108	32.572	72.450	1.00	34.17
ATOM	1891	CG	SEP	253	-1.459	31.671	71.519	1.00	39.52
ATOM	1892	C	SEP	253	-0.447	33.332	70.754	1.00	31.92
ATOM	1893	O	SEP	253	-1.701	31.248	71.283	1.00	31.17
ATOM	1894	N	GLY	254	-0.334	34.138	69.492	1.00	30.27
ATOM	1895	CA	GLY	254	-0.668	34.277	68.571	1.00	27.52
ATOM	1896	C	GLY	254	-0.332	33.219	68.216	1.00	28.64
ATOM	1897	O	GLY	254	-0.332	36.138	67.341	1.00	27.43
ATOM	1898	N	VAL	255	-1.174	34.123	69.313	1.00	31.10
ATOM	1899	CA	VAL	255	-2.608	34.886	68.581	1.00	31.43
ATOM	1900	CB	VAL	255	-2.108	32.637	69.516	1.00	27.95
ATOM	1901	CG1	VAL	255	-5.138	30.530	69.601	1.00	25.85
ATOM	1902	CG2	VAL	255	-3.139	33.782	71.264	1.00	27.69
ATOM	1903	C	VAL	255	-3.139	33.996	67.453	1.00	23.67
ATOM	1904	O	VAL	255	-1.907	35.881	66.901	1.00	21.95
ATOM	1905	N	TYR	256	-1.133	31.736	66.881	1.00	24.22
ATOM	1906	CA	TYR	256	-2.107	31.614	68.441	1.00	22.81
ATOM	1907	CB	TYR	256	-4.156	33.739	65.356	1.00	22.52
ATOM	1908	CG	TYR	256	-5.101	33.802	63.935	1.00	22.38
ATOM	1909	CD1	TYR	256	-6.101	34.614	63.326	1.00	22.41
ATOM	1910	CE1	TYR	256	-6.136	33.534	61.873	1.00	23.46
ATOM	1911	CE2	TYR	256	-5.135	32.433	63.171	1.00	23.34
ATOM	1912	CE3	TYR	256	-5.139	31.348	61.483	1.00	22.31
ATOM	1913	CH	TYR	256	-6.138	33.413	61.131	1.00	25.45
ATOM	1914	OH	TYR	256	-6.148	33.319	59.191	1.00	23.06
ATOM	1915	C	TYR	256	-2.135	33.805	64.645	1.00	22.39
ATOM	1916	O	TYR	256	-1.800	32.945	65.107	1.00	20.80
ATOM	1917	N	PRO	257	-2.138	34.465	63.441	1.00	23.29
ATOM	1918	CD	PRO	257	-1.336	33.851	62.453	1.00	21.59
ATOM	1919	CA	PRO	257	-2.326	35.611	62.654	1.00	22.56
ATOM	1920	CB	PRO	257	-2.435	35.542	61.579	1.00	22.50
ATOM	1921	CG	PRO	257	-1.128	34.947	61.427	1.00	22.66
ATOM	1922	C	PRO	257	-2.412	36.934	63.513	1.00	26.91
ATOM	1923	O	PRO	257	-1.382	37.074	64.027	1.00	28.97
ATOM	1924	N	GLY	258	-2.112	37.832	63.501	1.00	25.96
ATOM	1925	CA	GLY	258	-3.151	39.132	61.692	1.00	31.15
ATOM	1926	C	GLY	258	-2.550	40.108	63.352	1.00	31.98
ATOM	1927	O	GLY	258	-2.454	39.750	61.475	1.00	31.32
ATOM	1928	N	GLU	259	-2.151	41.331	63.176	1.00	32.38
ATOM	1929	CA	GLU	259	-1.571	41.259	62.554	1.00	32.72
ATOM	1930	CB	GLU	259	-1.118	43.513	63.104	1.00	31.56
ATOM	1931	CG	GLU	259	-0.153	44.376	62.519	1.00	43.03
ATOM	1932	CD	GLU	259	-1.196	43.635	62.196	1.00	43.11
ATOM	1933	OE1	GLU	259	-2.009	44.137	61.534	1.00	48.27
ATOM	1934	OE2	GLU	259	-1.421	42.610	62.486	1.00	41.73
ATOM	1935	C	GLU	259	-2.606	41.629	61.198	1.00	36.27
ATOM	1936	O	GLU	259	-2.258	43.016	60.391	1.00	36.03
ATOM	1937	N	GLU	260	-3.881	42.468	61.844	1.00	36.22
ATOM	1938	CA	GLU	260	-4.936	41.360	60.330	1.00	36.42
ATOM	1939	CB	GLU	260	-6.316	42.694	61.673	1.00	39.45
ATOM	1940	CG	GLU	260	-6.284	41.354	63.087	1.00	43.52
ATOM	1941	CD	GLU	260	-5.523	42.547	64.088	1.00	46.65
ATOM	1942	OE1	GLU	260	-6.384	41.328	64.306	1.00	47.92
ATOM	1943	OE2	GLU	260	-4.637	42.536	64.656	1.00	46.44
ATOM	1944	C	GLU	260	-5.057	41.724	59.836	1.00	35.35
ATOM	1945	O	GLU	260	-5.677	41.940	58.797	1.00	34.86
ATOM	1946	N	HIS	261	-4.434	40.777	60.084	1.00	34.79
ATOM	1947	CA	HIS	261	-4.448	39.471	59.131	1.00	34.15
ATOM	1948	CB	HIS	261	-4.770	38.154	59.657	1.00	32.16
ATOM	1949	CG	HIS	261	-6.004	38.213	60.687	1.00	31.51
ATOM	1950	CD	HIS	261	-6.300	38.919	61.013	1.00	31.76
ATOM	1951	CE1	HIS	261	-7.240	38.403	60.149	1.00	30.98
ATOM	1952	CE2	HIS	261	-8.158	38.411	61.106	1.00	28.80
ATOM	1953	CE3	HIS	261	-7.546	38.134	61.136	1.00	31.77

ATOM	1954	C	HIS	261	3.110	39.330	53.424	1.00	35.41
ATOM	1955	O	HIS	261	1.912	38.408	57.631	1.00	35.55
ATOM	1956	N	SEP	262	1.195	40.248	53.716	1.00	35.97
ATOM	1957	CA	SEP	262	0.864	40.226	53.137	1.00	36.99
ATOM	1958	CB	SEP	262	-0.173	40.483	53.223	1.00	36.31
ATOM	1959	OG	SEP	262	-0.052	39.540	60.279	1.00	37.80
ATOM	1960	C	SEP	262	-0.703	41.254	53.014	1.00	38.31
ATOM	1961	O	SEP	262	1.483	42.203	56.909	1.00	37.66
ATOM	1962	N	FHE	263	-0.517	41.050	52.178	1.00	40.01
ATOM	1963	CA	FHE	263	-0.600	41.955	55.068	1.00	41.83
ATOM	1964	CB	FHE	263	-0.434	41.243	53.718	1.00	42.58
ATOM	1965	CG	FHE	263	0.969	40.797	55.429	1.00	43.74
ATOM	1966	CD1	FHE	263	1.366	39.447	55.467	1.00	43.83
ATOM	1967	CD2	FHE	263	1.954	41.727	53.110	1.00	44.25
ATOM	1968	CE1	FHE	263	2.605	39.029	55.190	1.00	44.88
ATOM	1969	CE2	FHE	263	1.354	41.322	52.332	1.00	45.25
ATOM	1970	CZ	FHE	263	1.587	39.976	53.371	1.00	45.70
ATOM	1971	C	FHE	263	-2.026	42.482	55.169	1.00	43.76
ATOM	1972	O	FHE	263	-1.827	41.984	55.901	1.00	41.84
ATOM	1973	N	HIS	264	-2.135	43.491	54.359	1.00	44.75
ATOM	1974	CA	HIS	264	-3.661	44.102	54.333	1.00	47.33
ATOM	1975	CB	HIS	264	-3.719	45.185	55.303	1.00	48.50
ATOM	1976	CG	HIS	264	-3.533	44.897	54.735	1.00	49.57
ATOM	1977	GNT	HIS	264	-2.561	43.319	57.835	1.00	49.70
ATOM	1978	ND1	HIS	264	-4.194	44.037	57.389	1.00	49.75
ATOM	1979	CE1	HIS	264	-3.973	43.854	58.815	1.00	50.34
ATOM	1980	NE2	HIS	264	-2.874	44.565	58.401	1.00	49.74
ATOM	1981	C	HIS	264	-4.923	44.527	57.337	1.00	47.63
ATOM	1982	O	HIS	264	-5.144	44.375	52.463	1.00	48.91
ATOM	1983	GNT	HIS	264	-3.173	45.045	52.312	1.00	48.39
ATOM	1984	C1	HPL	265	5.687	27.716	51.518	1.00	41.50
ATOM	1985	C2	HPL	265	4.190	26.479	51.478	1.00	40.60
ATOM	1986	C3	HPL	265	4.654	25.755	52.846	1.00	39.94
ATOM	1987	C4	HPL	265	3.707	26.938	51.779	1.00	41.78
ATOM	1988	O1	HPL	265	3.243	27.030	51.619	1.00	43.47
ATOM	1989	C5	HPL	265	4.307	25.515	50.360	1.00	40.98
ATOM	1990	O2	HPL	265	3.202	25.339	49.713	1.00	38.14
ATOM	1991	C6	HPL	265	5.436	24.423	48.344	1.00	33.07
ATOM	1992	O3	HPL	265	6.053	25.170	50.562	1.00	40.08
ATOM	1993	O4	HPL	265	5.695	24.104	48.874	1.00	38.37
ATOM	1994	CB	MET	301	16.154	43.498	31.231	1.00	80.41
ATOM	1995	CG	MET	301	15.177	44.253	30.326	1.00	81.85
ATOM	1996	SD	MET	301	13.933	45.244	31.185	1.00	81.34
ATOM	1997	CE	MET	301	12.458	44.233	30.946	1.00	83.29
ATOM	1998	C	MET	301	14.844	42.880	33.290	1.00	78.13
ATOM	1999	O	MET	301	13.030	44.033	33.680	1.00	78.18
ATOM	2000	N	MET	301	11.641	41.533	31.184	1.00	78.62
ATOM	2001	CA	MET	301	13.549	42.343	32.945	1.00	78.92
ATOM	2002	N	LYS	302	11.041	42.021	33.814	1.00	76.63
ATOM	2003	CA	LYS	302	13.309	42.378	35.118	1.00	75.10
ATOM	2004	CB	LYS	302	11.941	42.982	34.740	1.00	75.44
ATOM	2005	CG	LYS	302	11.997	44.455	34.355	1.00	75.76
ATOM	2006	CD	LYS	302	11.271	45.239	35.571	1.00	75.67
ATOM	2007	CE	LYS	302	11.147	45.211	36.534	1.00	75.44
ATOM	2008	NZ	LYS	302	11.411	46.017	37.817	1.00	75.82
ATOM	2009	C	LYS	302	13.091	41.133	36.030	1.00	73.54
ATOM	2010	O	LYS	302	13.153	41.320	37.200	1.00	74.12
ATOM	2011	N	PRO	303	11.847	40.267	35.334	1.00	71.41
ATOM	2012	CB	PRO	303	11.653	38.812	36.425	1.00	70.80
ATOM	2013	CA	PRO	303	12.713	39.593	37.113	1.00	69.04
ATOM	2014	CB	PRO	303	12.753	38.634	34.213	1.00	69.91
ATOM	2015	CG	PRO	303	12.063	37.812	36.423	1.00	70.52
ATOM	2016	C	PRO	303	11.347	40.133	35.444	1.00	68.77
ATOM	2017	O	PRO	303	12.463	40.417	34.093	1.00	66.84
ATOM	2018	N	THR	304	11.533	40.233	37.127	1.00	63.90
ATOM	2019	CA	THR	304	12.474	40.781	37.337	1.00	61.78
ATOM	2020	CB	THR	304	10.839	40.816	38.842	1.00	61.51
ATOM	2021	CG1	THR	304	12.583	41.483	38.668	1.00	60.91
ATOM	2022	CG2	THR	304	9.753	41.509	39.062	1.00	60.78
ATOM	2023	C	THR	304	9.337	38.377	37.525	1.00	57.60
ATOM	2024	O	THR	304	9.437	38.673	37.563	1.00	57.05
ATOM	2025	N	THR	305	9.033	41.137	37.644	1.00	57.60
ATOM	2026	CA	THR	305	8.893	39.783	37.829	1.00	57.83
ATOM	2027	CB	THR	305	8.127	40.074	38.294	1.00	57.60
ATOM	2028	CG1	THR	305	5.833	41.463	38.293	1.00	58.27
ATOM	2029	CG2	THR	305	7.133	40.717	34.317	1.00	57.13
ATOM	2030	C	THR	305	5.181	42.133	37.238	1.00	56.13

ATOM	2031	O	THR	305	5.963	41.108	30.020	1.00	54.85
ATOM	2032	N	ILE	306	4.755	39.328	30.690	1.00	54.30
ATOM	2033	CA	ILE	306	3.698	39.543	19.704	1.00	54.29
ATOM	2034	CB	ILE	306	2.606	39.462	19.811	1.00	54.30
ATOM	2035	CG2	ILE	306	1.645	39.563	28.644	1.00	54.60
ATOM	2036	CG1	ILE	306	3.243	37.074	29.846	1.00	54.90
ATOM	2037	CD1	ILE	306	1.276	35.949	30.142	1.00	55.20
ATOM	2038	C	ILF	306	1.061	40.905	29.940	1.00	54.16
ATOM	2039	O	ILR	306	1.642	41.584	28.909	1.00	57.90
ATOM	2040	N	SEF	307	1.990	41.199	31.203	1.00	53.90
ATOM	2041	CA	SEF	307	1.401	42.529	31.583	1.00	54.20
ATOM	2042	CB	SEF	307	1.521	42.733	33.101	1.00	54.20
ATOM	2043	CG	SEF	307	1.851	41.744	33.801	1.00	55.29
ATOM	2044	C	SEF	307	3.064	43.745	30.855	1.00	53.70
ATOM	2045	O	SEF	307	1.38	44.653	30.379	1.00	54.19
ATOM	2046	N	LEU	308	4.391	43.712	30.779	1.00	53.00
ATOM	2047	CA	LEU	308	1.141	44.761	30.090	1.00	53.50
ATOM	2048	CB	LEU	308	6.630	44.411	36.644	1.00	53.40
ATOM	2049	CG	LEU	308	1.431	44.383	31.290	1.00	54.50
ATOM	2050	CD1	LEU	308	1.63	44.105	31.207	1.00	54.60
ATOM	2051	CD2	LEU	308	1.48	43.334	31.413	1.00	54.30
ATOM	2052	C	LEU	308	4.631	44.928	34.630	1.00	57.60
ATOM	2053	O	LEU	308	4.350	43.110	34.277	1.00	51.20
ATOM	2054	N	LEU	309	4.500	41.905	33.907	1.00	57.10
ATOM	2055	CA	LEU	309	3.023	41.950	33.544	1.00	51.60
ATOM	2056	CB	LEU	309	3.991	42.599	33.911	1.00	57.30
ATOM	2057	CG	LEU	309	5.130	41.872	35.800	1.00	57.10
ATOM	2058	CD1	LEU	309	5.100	40.469	35.271	1.00	52.80
ATOM	2059	CD2	LEU	309	6.270	41.646	34.890	1.00	52.50
ATOM	2060	C	LEU	309	2.620	44.198	26.580	1.00	53.99
ATOM	2061	O	LEU	309	2.310	41.429	25.677	1.00	53.60
ATOM	2062	N	GLN	310	1.790	44.183	25.470	1.00	54.00
ATOM	2063	CA	GLN	310	0.420	44.685	27.576	1.00	55.20
ATOM	2064	CB	GLN	310	-0.510	44.909	28.110	1.00	55.00
ATOM	2065	CG	GLN	310	-1.810	44.733	28.580	1.00	55.60
ATOM	2066	CD	GLN	310	-2.570	43.532	27.500	1.00	56.40
ATOM	2067	DE1	GLN	310	-0.190	44.554	28.400	1.00	56.40
ATOM	2068	DE2	GLN	310	-3.430	43.784	27.800	1.00	57.00
ATOM	2069	C	GLN	310	0.440	43.180	27.610	1.00	56.00
ATOM	2070	O	GLN	310	-0.260	43.949	28.100	1.00	56.00
ATOM	2071	N	LYS	311	1.250	44.630	28.180	1.00	56.45
ATOM	2072	CA	LYS	311	1.360	44.030	28.110	1.00	57.85
ATOM	2073	CB	LYS	311	2.360	43.230	29.260	1.00	58.44
ATOM	2074	CG	LYS	311	2.410	49.668	30.770	1.00	59.70
ATOM	2075	CD	LYS	311	3.850	50.156	30.930	1.00	60.00
ATOM	2076	CE	LYS	311	4.610	49.364	31.980	1.00	60.10
ATOM	2077	NZ	LYS	311	6.010	49.849	32.110	1.00	59.90
ATOM	2078	C	LYS	311	1.820	48.806	27.900	1.00	57.84
ATOM	2079	O	LYS	311	2.040	48.908	27.600	1.00	57.00
ATOM	2080	N	TYR	312	2.770	49.269	27.180	1.00	58.58
ATOM	2081	CA	TYR	312	3.110	48.913	25.970	1.00	59.39
ATOM	2082	CB	TYR	312	4.160	48.014	25.310	1.00	60.00
ATOM	2083	CG	TYR	312	5.840	47.809	26.110	1.00	62.17
ATOM	2084	CD1	TYR	312	6.830	46.960	25.600	1.00	62.60
ATOM	2085	CD2	TYR	312	7.810	46.789	26.400	1.00	63.89
ATOM	2086	CE1	TYR	312	5.855	48.957	27.200	1.00	62.70
ATOM	2087	CE2	TYR	312	7.030	48.404	28.000	1.00	63.50
ATOM	2088	CZ	TYR	312	8.090	47.522	27.500	1.00	63.50
ATOM	2089	OH	TYR	312	9.170	47.369	28.700	1.00	63.99
ATOM	2090	C	TRP	312	2.230	49.343	24.900	1.00	60.16
ATOM	2091	O	TRP	312	2.267	50.379	24.700	1.00	60.00
ATOM	2092	N	LYS	313	1.244	48.340	23.800	1.00	60.30
ATOM	2093	CA	LYS	313	0.155	48.579	23.800	1.00	60.59
ATOM	2094	CB	LYS	313	-0.720	47.324	22.700	1.00	59.68
ATOM	2095	CG	LYS	313	-1.855	47.366	22.766	1.00	59.30
ATOM	2096	CD	LYS	313	-2.535	46.141	22.400	1.00	57.30
ATOM	2097	CE	LYS	313	-3.587	46.318	21.500	1.00	57.40
ATOM	2098	NZ	LYS	313	-4.149	45.023	20.900	1.00	57.60
ATOM	2099	C	LYS	313	-0.880	44.771	24.300	1.00	60.99
ATOM	2100	O	LYS	313	-1.190	49.558	23.500	1.00	60.40
ATOM	2101	N	GLN	314	1.870	44.653	25.600	1.00	61.89
ATOM	2102	CA	GLN	314	-1.000	41.024	26.300	1.00	61.40
ATOM	2103	CB	GLN	314	1.000	50.747	27.600	1.00	61.34
ATOM	2104	CG	GLN	314	-2.810	49.507	27.998	1.00	64.00
ATOM	2105	CD	GLN	314	-3.070	44.266	29.166	1.00	64.40
ATOM	2106	DE1	GLN	314	-3.770	50.109	29.047	1.00	64.70
ATOM	2107	DE2	GLN	314	-3.770	48.110	28.860	1.00	64.80

ATOM	2108	C	GLN	314	-0.890	52.313	26.040	1.00	64.13
ATOM	2109	O	GLN	314	-1.199	53.383	26.378	1.00	65.09
ATOM	2110	N	GLU	315	0.326	52.217	25.543	1.00	64.44
ATOM	2111	CA	GLU	315	1.186	53.386	25.332	1.00	64.89
ATOM	2112	CB	GLU	315	2.456	53.154	26.149	1.00	65.04
ATOM	2113	CG	GLU	315	2.150	53.017	27.677	1.00	65.40
ATOM	2114	CD	GLU	315	1.158	52.910	28.467	1.00	65.81
ATOM	2115	OE1	GLU	315	4.414	52.101	28.037	1.00	66.19
ATOM	2116	OE2	GLU	315	2.102	52.631	29.414	1.00	66.44
ATOM	2117	C	GLU	315	1.153	51.541	23.835	1.00	64.31
ATOM	2118	O	GLU	315	1.723	54.408	23.480	1.00	64.82
ATOM	2119	N	LYS	316	0.938	51.892	23.323	1.00	64.19
ATOM	2120	CA	LYS	316	1.176	52.731	21.785	1.00	64.11
ATOM	2121	CB	LYS	316	0.604	54.024	20.993	1.00	64.07
ATOM	2122	CG	LYS	316	-0.840	54.306	21.287	1.00	64.10
ATOM	2123	CE	LYS	316	-1.794	53.159	20.843	1.00	63.85
ATOM	2124	CF	LYS	316	-3.220	52.514	21.206	1.00	63.79
ATOM	2125	NZ	LYS	316	-5.713	54.874	20.334	1.00	63.74
ATOM	2126	C	LYS	316	1.651	52.643	21.276	1.00	64.15
ATOM	2127	O	LYS	316	2.117	52.160	20.225	1.00	63.13
ATOM	2128	N	LYS	317	1.391	51.878	21.281	1.00	64.17
ATOM	2129	CA	LYS	317	2.631	51.162	21.261	1.00	63.70
ATOM	2130	CB	LYS	317	3.313	51.810	21.277	1.00	64.11
ATOM	2131	CG	LYS	317	2.541	51.436	21.278	1.00	63.73
ATOM	2132	CD	LYS	317	1.629	51.451	24.141	1.00	63.71
ATOM	2133	CE	LYS	317	1.148	52.120	25.181	1.00	64.17
ATOM	2134	NZ	LYS	317	8.145	52.582	26.734	1.00	63.68
ATOM	2135	C	LYS	318	3.157	51.849	21.273	1.00	63.73
ATOM	2136	O	LYS	317	3.741	49.131	21.284	1.00	63.73
ATOM	2137	N	ARG	318	3.161	52.342	19.238	1.00	61.10
ATOM	2138	CA	ARG	318	3.482	49.109	19.230	1.00	59.68
ATOM	2139	CB	ARG	318	3.160	49.370	17.733	1.00	60.40
ATOM	2140	CG	ARG	318	4.416	49.144	17.130	1.00	61.19
ATOM	2141	CD	ARG	318	4.469	49.737	15.604	1.00	61.14
ATOM	2142	NE	ARG	318	4.450	51.198	15.718	1.00	62.30
ATOM	2143	CZ	ARG	318	4.715	51.885	14.747	1.00	62.32
ATOM	2144	NH1	ARG	318	4.347	51.149	13.117	1.00	60.36
ATOM	2145	NH2	ARG	318	4.331	51.111	14.433	1.00	62.36
ATOM	2146	C	ARG	319	6.990	48.397	18.734	1.00	58.83
ATOM	2147	O	ARG	318	8.614	48.174	19.110	1.00	58.17
ATOM	2148	N	PHE	319	6.928	47.341	20.116	1.00	57.39
ATOM	2149	CA	PHE	319	8.089	46.130	20.457	1.00	55.49
ATOM	2150	CB	PHE	319	7.705	45.856	22.303	1.00	56.11
ATOM	2151	CG	PHE	319	6.465	45.036	21.345	1.00	56.37
ATOM	2152	CD1	PHE	319	6.465	45.768	21.348	1.00	56.34
ATOM	2153	CD2	PHE	319	5.270	45.143	22.118	1.00	56.37
ATOM	2154	CE1	PHE	319	5.291	47.018	21.274	1.00	57.13
ATOM	2155	CE2	PHE	319	4.092	44.803	22.379	1.00	56.83
ATOM	2156	CZ	PHE	319	4.101	47.139	21.361	1.00	56.64
ATOM	2157	C	PHE	319	8.652	45.497	19.642	1.00	54.04
ATOM	2158	O	PHE	319	7.932	45.063	18.776	1.00	53.79
ATOM	2159	N	ALA	320	9.887	45.106	19.830	1.00	51.33
ATOM	2160	CA	ALA	320	13.527	44.135	19.913	1.00	49.36
ATOM	2161	CB	ALA	320	11.880	44.865	18.542	1.00	49.47
ATOM	2162	C	ALA	320	12.495	41.773	13.636	1.00	47.11
ATOM	2163	O	ALA	320	13.899	41.677	20.146	1.00	47.41
ATOM	2164	N	THR	321	13.607	41.121	18.839	1.00	45.00
ATOM	2165	CA	THR	321	12.755	40.355	13.717	1.00	43.66
ATOM	2166	CB	THR	321	9.083	36.692	13.539	1.00	43.59
ATOM	2167	CG1	THR	321	8.618	40.472	20.507	1.00	44.16
ATOM	2168	CG2	THR	321	9.553	38.293	20.132	1.00	44.04
ATOM	2169	C	THR	321	11.534	39.842	13.307	1.00	41.79
ATOM	2170	O	THR	321	11.856	39.804	17.130	1.00	41.89
ATOM	2171	N	ILE	322	12.297	39.951	14.736	1.00	40.55
ATOM	2172	CA	ILE	322	14.077	37.722	17.837	1.00	38.74
ATOM	2173	CB	ILE	322	14.479	38.344	17.639	1.00	39.69
ATOM	2174	CG1	ILE	322	13.310	39.150	14.914	1.00	38.31
ATOM	2175	CG2	ILE	322	14.166	37.692	16.439	1.00	39.63
ATOM	2176	CD1	ILE	322	14.436	38.388	16.035	1.00	40.44
ATOM	2177	C	ILE	322	13.230	36.259	18.375	1.00	37.31
ATOM	2178	O	ILE	322	14.247	35.095	19.117	1.00	36.76
ATOM	2179	N	THR	323	14.544	35.381	17.438	1.00	35.23
ATOM	2180	CA	THR	323	14.718	36.980	17.817	1.00	33.43
ATOM	2181	CB	THR	323	14.391	35.234	16.637	1.00	33.66
ATOM	2182	CG1	THR	323	14.346	33.202	15.536	1.00	33.89
ATOM	2183	CG2	THR	323	11.899	29.231	14.036	1.00	34.18
ATOM	2184	C	THR	323	12.178	33.217	14.131	1.00	31.27

ATCM	2185	O	THR	323	16.071	24.459	17.879	1.00	20.93
ATCM	2186	N	ALA	324	15.245	32.661	19.023	1.00	30.73
ATCM	2187	CA	ALA	324	16.662	32.257	19.518	1.00	17.91
ATCM	2188	CB	ALA	324	17.022	33.025	20.763	1.00	19.81
ATCM	2189	C	ALZ	324	16.618	36.758	19.800	1.00	28.38
ATCM	2190	O	ALA	324	15.618	30.247	20.312	1.00	16.39
ATCM	2191	N	TYH	325	17.203	36.059	19.472	1.00	25.02
ATCM	2192	CA	TYH	325	17.759	28.616	19.663	1.00	27.26
ATCM	2193	CB	TYH	325	17.603	27.909	18.315	1.00	15.25
ATCM	2194	CG	TYH	325	16.645	28.396	17.172	1.00	24.94
ATCM	2195	CD1	TYH	325	17.109	29.101	16.417	1.00	23.91
ATCM	2196	CE1	TYH	325	16.234	30.125	15.513	1.00	15.04
ATCM	2197	CD2	TYH	325	15.275	28.156	17.427	1.00	25.25
ATCM	2198	CE2	TYH	325	14.392	28.954	16.552	1.00	12.58
ATCM	2199	CZ	TYH	325	14.876	29.845	15.606	1.00	24.69
ATCM	2200	OH	TYH	325	14.003	30.434	14.725	1.00	15.35
ATCM	2201	C	THI	325	19.038	28.131	20.535	1.00	25.49
ATCM	2202	O	TYH	325	19.267	26.951	20.400	1.00	28.39
ATCM	2203	N	ACH	326	19.154	29.052	20.825	1.00	17.48
ATCM	2204	CA	ACH	326	21.002	28.847	21.488	1.00	15.25
ATCM	2205	CB	ACH	326	21.768	28.152	20.485	1.00	16.90
ATCM	2206	CG	ACH	326	21.645	29.161	19.767	1.00	27.97
ATCM	2207	CD1	ACH	326	21.294	30.459	20.190	1.00	18.28
ATCM	2208	CD2	ACH	326	21.293	29.161	18.665	1.00	28.96
ATCM	2209	C	ACH	326	21.541	29.857	22.519	1.00	16.59
ATCM	2210	O	ACH	326	20.991	30.753	22.186	1.00	16.01
ATCM	2211	N	THI	327	22.347	29.102	23.239	1.00	27.76
ATCM	2212	CA	THI	327	23.106	30.352	24.113	1.00	16.47
ATCM	2213	CB	THI	327	24.103	29.185	25.075	1.00	11.91
ATCM	2214	CG	THI	327	24.367	30.115	26.037	1.00	15.27
ATCM	2215	CD1	THI	327	24.445	30.362	27.100	1.00	16.64
ATCM	2216	CD2	THI	327	25.196	31.111	28.109	1.00	17.29
ATCM	2217	CD2	THI	327	26.181	30.558	25.744	1.00	15.38
ATCM	2218	CE2	THI	327	27.018	31.417	26.843	1.00	16.93
ATCM	2219	CZ	THI	327	26.472	31.759	27.669	1.00	17.24
ATCM	2220	OH	THI	327	27.148	31.111	28.755	1.00	17.87
ATCM	2221	C	THI	327	24.677	31.461	23.795	1.00	16.48
ATCM	2222	O	THI	327	23.116	31.443	24.148	1.00	18.68
ATCM	2223	N	SHS	328	24.645	31.147	22.808	1.00	17.39
ATCM	2224	CA	SHS	328	25.070	32.709	22.104	1.00	11.63
ATCM	2225	CB	SHS	328	26.152	32.057	21.109	1.00	11.10
ATCM	2226	CG	SHS	328	27.137	32.111	21.685	1.00	11.54
ATCM	2227	C	SHS	328	24.411	31.940	21.905	1.00	13.47
ATCM	2228	O	SHS	328	24.499	34.712	22.478	1.00	15.08
ATCM	2229	N	PHE	329	23.608	33.353	20.882	1.00	13.75
ATCM	2230	CA	PHE	329	22.635	34.373	20.180	1.00	15.26
ATCM	2231	CB	PHE	329	21.857	33.876	19.134	1.00	16.14
ATCM	2232	CG	PHE	329	22.794	33.315	17.884	1.00	17.89
ATCM	2233	CD1	PHE	329	23.136	31.760	17.191	1.00	17.32
ATCM	2234	CD2	PHE	329	22.935	31.117	17.107	1.00	17.37
ATCM	2235	CE1	PHE	329	24.135	32.803	16.143	1.00	17.43
ATCM	2236	CE2	PHE	329	23.731	31.169	16.061	1.00	17.67
ATCM	2237	CZ	PHE	329	24.378	34.011	15.876	1.00	18.05
ATCM	2238	C	PHE	329	21.631	34.872	21.415	1.00	16.35
ATCM	2239	O	PHE	329	21.044	36.040	21.187	1.00	15.47
ATCM	2240	N	ADA	330	21.333	37.997	22.129	1.00	16.19
ATCM	2241	CA	ADA	330	20.329	34.382	23.143	1.00	17.11
ATCM	2242	CB	ADA	330	19.629	35.159	24.127	1.00	17.11
ATCM	2243	C	ADA	330	20.130	35.453	24.125	1.00	18.43
ATCM	2244	O	ADA	330	20.284	35.456	24.117	1.00	18.42
ATCM	2245	N	LVS	331	22.169	35.224	24.113	1.00	18.16
ATCM	2246	CA	LVS	331	22.177	36.150	25.113	1.00	18.64
ATCM	2247	CB	LVS	331	24.133	35.560	25.113	1.00	18.34
ATCM	2248	CG	LVS	331	25.056	35.401	26.117	1.00	18.19
ATCM	2249	CZ	LVS	331	24.194	36.320	28.102	1.00	18.68
ATCM	2250	OH	LVS	331	25.098	37.032	29.105	1.00	18.98
ATCM	2251	NZ	LVS	331	25.159	38.510	29.109	1.00	18.22
ATCM	2252	C	LVS	331	23.084	37.497	24.111	1.00	18.68
ATCM	2253	O	LVS	331	23.000	36.554	25.110	1.00	14.09
ATCM	2254	N	LEU	332	23.351	37.445	25.114	1.00	15.18
ATCM	2255	CA	LEU	332	23.086	38.646	26.107	1.00	12.72
ATCM	2256	CB	LEU	332	24.110	37.349	21.893	1.00	12.69
ATCM	2257	CG	LEU	332	24.502	39.350	20.447	1.00	13.12
ATCM	2258	CD1	LEU	332	25.456	38.753	18.448	1.00	11.43
ATCM	2259	CD2	LEU	332	23.315	39.981	19.741	1.00	14.16
ATCM	2260	C	LEU	332	21.377	39.965	21.754	1.00	14.47
ATCM	2261	O	LEU	332	21.146	40.779	22.106	1.00	14.17

ATOM	2262	N	PHE	333	21.204	39.004	22.463	1.00	42.78
ATOM	2263	CA	PHE	333	19.997	39.814	22.387	1.00	43.66
ATOM	2264	CB	PHE	333	18.818	38.983	21.680	1.00	43.29
ATOM	2265	CG	PHE	333	19.080	38.299	20.580	1.00	43.11
ATOM	2266	CD1	PHE	333	19.750	38.912	19.548	1.00	42.14
ATOM	2267	CD2	PHE	333	18.640	36.986	20.379	1.00	42.92
ATOM	2268	CE1	PHE	333	19.977	38.306	18.534	1.00	42.67
ATOM	2269	CE2	PHE	333	18.860	36.341	19.169	1.00	42.88
ATOM	2270	CZ	PHE	333	19.531	37.081	18.141	1.00	42.87
ATOM	2271	C	PHE	333	19.651	40.333	22.547	1.00	44.42
ATOM	2272	O	PHE	333	19.189	41.506	23.851	1.00	43.85
ATOM	2273	N	ALA	334	19.861	39.690	24.789	1.00	45.14
ATOM	2274	CA	ALA	334	19.192	40.017	26.154	1.00	45.59
ATOM	2275	CB	ALA	334	19.912	38.864	25.121	1.00	45.78
ATOM	2276	C	ALA	334	20.376	41.293	26.538	1.00	45.65
ATOM	2277	O	ALA	334	19.837	42.179	27.167	1.00	46.18
ATOM	2278	N	ASP	335	21.649	41.296	26.160	1.00	45.92
ATOM	2279	CA	ASP	335	22.109	42.419	26.483	1.00	45.71
ATOM	2280	CB	ASP	335	23.957	41.019	26.188	1.00	44.57
ATOM	2281	CG	ASP	335	24.177	40.797	27.177	1.00	43.56
ATOM	2282	CD1	ASP	335	23.136	40.404	26.141	1.00	43.50
ATOM	2283	CD2	ASP	335	25.158	40.001	26.949	1.00	42.87
ATOM	2284	O	ASP	335	22.162	41.669	26.581	1.00	46.13
ATOM	2285	O	ASP	335	22.912	44.660	26.131	1.00	46.45
ATOM	2286	N	GLU	336	21.324	43.341	24.654	1.00	47.36
ATOM	2287	CA	GLU	336	20.999	44.500	24.141	1.00	49.00
ATOM	2288	CB	GLU	336	21.067	44.009	23.129	1.00	49.86
ATOM	2289	CG	GLU	336	21.485	43.705	21.828	1.00	51.32
ATOM	2290	CD	GLU	336	23.450	44.361	21.006	1.00	52.76
ATOM	2291	OE1	GLU	336	23.034	45.933	21.418	1.00	53.72
ATOM	2292	OE2	GLU	336	24.443	44.602	22.741	1.00	53.31
ATOM	2293	O	GLU	336	19.620	45.106	24.026	1.00	49.27
ATOM	2294	C	GLU	336	19.171	46.006	21.341	1.00	49.78
ATOM	2295	N	GLY	337	18.948	44.608	23.033	1.00	49.15
ATOM	2296	CA	GLY	337	17.605	45.004	21.086	1.00	49.61
ATOM	2297	C	GLY	337	16.493	44.169	24.981	1.00	50.11
ATOM	2298	O	GLY	337	16.707	44.318	21.458	1.00	49.98
ATOM	2299	N	LEU	338	16.755	43.219	24.095	1.00	50.33
ATOM	2300	CA	LEU	338	16.779	42.267	21.637	1.00	50.74
ATOM	2301	CB	LEU	338	16.108	41.701	21.223	1.00	50.96
ATOM	2302	CG	LEU	338	15.750	42.708	21.079	1.00	51.66
ATOM	2303	CD1	LEU	338	16.257	42.133	21.763	1.00	52.47
ATOM	2304	CD2	LEU	338	14.265	42.133	21.044	1.00	52.45
ATOM	2305	C	LEU	338	15.674	41.003	24.575	1.00	50.23
ATOM	2306	O	LEU	338	16.430	40.109	24.459	1.00	50.65
ATOM	2307	N	ASN	339	14.729	41.136	24.506	1.00	49.73
ATOM	2308	CA	ASN	339	14.514	40.006	21.469	1.00	48.47
ATOM	2309	CB	ASN	339	14.536	40.617	21.889	1.00	50.15
ATOM	2310	CG	ASN	339	15.942	40.386	21.359	1.00	52.34
ATOM	2311	OD1	ASN	339	16.706	40.195	21.759	1.00	52.97
ATOM	2312	ND2	ASN	339	16.292	42.267	21.301	1.00	52.70
ATOM	2313	C	ASN	339	13.194	39.355	21.204	1.00	46.90
ATOM	2314	O	ASN	339	12.490	38.961	21.129	1.00	46.89
ATOM	2315	N	VAL	340	12.868	39.145	24.927	1.00	44.67
ATOM	2316	CA	VAL	340	13.645	38.599	23.518	1.00	43.58
ATOM	2317	CB	VAL	340	10.565	39.331	21.072	1.00	43.68
ATOM	2318	CG1	VAL	340	10.271	38.738	21.779	1.00	43.89
ATOM	2319	CG2	VAL	340	16.345	40.550	21.147	1.00	43.92
ATOM	2320	C	VAL	340	11.991	37.507	21.345	1.00	42.73
ATOM	2321	O	VAL	340	11.807	37.309	21.182	1.00	40.86
ATOM	2322	N	MET	341	12.496	36.410	24.667	1.00	41.25
ATOM	2323	CA	MET	341	12.900	35.136	23.664	1.00	37.74
ATOM	2324	CB	MET	341	14.028	41.374	21.056	1.00	39.76
ATOM	2325	CG	MET	341	15.463	35.333	21.848	1.00	38.98
ATOM	2326	CD	MET	341	24.316	35.526	23.975	1.00	43.33
ATOM	2327	CE	MET	341	11.743	36.302	23.141	1.00	41.65
ATOM	2328	O	MET	341	11.810	34.209	23.461	1.00	36.58
ATOM	2329	C	MET	341	11.106	33.845	24.389	1.00	34.34
ATOM	2330	N	LEU	342	11.858	33.734	21.136	1.00	33.92
ATOM	2331	CA	LEU	342	10.844	32.607	21.304	1.00	31.78
ATOM	2332	CB	LEU	342	9.873	33.234	19.933	1.00	33.59
ATOM	2333	CG	LEU	342	8.686	32.234	19.360	1.00	33.32
ATOM	2334	CD1	LEU	342	9.491	31.606	19.941	1.00	36.45
ATOM	2335	CD2	LEU	342	8.389	31.200	20.256	1.00	36.86
ATOM	2336	C	LEU	342	11.071	31.405	20.317	1.00	28.89
ATOM	2337	O	LEU	342	11.386	31.594	19.304	1.00	28.48
ATOM	2338	N	VAL	343	11.494	30.304	20.597	1.00	15.65

ATOM	2339	CA	VAL	343	12.099	29.093	20.483	1.00	24.23
ATOM	2340	CB	VAL	343	12.543	28.193	21.664	1.00	24.85
ATOM	2341	CD1	VAL	343	13.222	26.942	21.135	1.00	24.17
ATOM	2342	CD2	VAL	343	13.490	28.960	22.585	1.00	24.85
ATOM	2343	C	VAL	343	11.001	28.393	19.685	1.00	23.87
ATOM	2344	O	VAL	343	10.255	27.575	20.220	1.00	23.67
ATOM	2345	N	GLY	344	10.900	28.737	18.404	1.00	23.69
ATOM	2346	CA	GLY	344	9.871	28.152	17.561	1.00	24.64
ATOM	2347	C	GLY	344	10.312	26.961	16.736	1.00	25.93
ATOM	2348	O	GLY	344	11.507	26.689	16.621	1.00	22.31
ATOM	2349	N	ASP	345	9.340	26.253	16.161	1.00	25.67
ATOM	2350	CA	ASP	345	9.625	25.685	15.342	1.00	24.70
ATOM	2351	CB	ASP	345	8.342	24.306	15.027	1.00	26.76
ATOM	2352	CG	ASP	345	7.201	25.196	14.563	1.00	26.89
ATOM	2353	OD1	ASP	345	7.454	26.315	14.066	1.00	27.29
ATOM	2354	OD2	ASP	345	6.042	24.719	14.691	1.00	28.98
ATOM	2355	C	ASP	345	10.335	25.464	14.051	1.00	25.12
ATOM	2356	O	ASP	345	10.905	24.517	13.260	1.00	25.75
ATOM	2357	N	PEP	346	10.578	26.781	13.846	1.00	24.45
ATOM	2358	CA	PEP	346	11.217	25.718	11.649	1.00	23.43
ATOM	2359	CB	PEP	346	11.273	25.739	12.673	1.00	23.92
ATOM	2360	C	PEP	346	11.644	24.219	11.716	1.00	23.27
ATOM	2361	O	PEP	346	11.695	26.695	11.905	1.00	23.90
ATOM	2362	C	PEP	346	11.312	26.312	11.635	1.00	24.30
ATOM	2363	N	LEU	347	11.090	26.315	13.919	1.00	22.17
ATOM	2364	CA	LEU	347	14.417	25.710	14.161	1.00	21.78
ATOM	2365	CB	LEU	347	14.664	25.473	15.631	1.00	22.74
ATOM	2366	C	LEU	347	11.787	24.461	16.351	1.00	21.80
ATOM	2367	CD1	LEU	347	14.314	25.012	16.117	1.00	21.77
ATOM	2368	CD2	LEU	347	11.746	24.818	15.831	1.00	22.86
ATOM	2369	C	LEU	347	14.548	24.416	15.313	1.00	21.48
ATOM	2370	O	LEU	347	15.693	25.810	15.313	1.00	21.19
ATOM	2371	N	GLY	348	11.475	23.815	12.915	1.00	21.76
ATOM	2372	CA	GLY	348	13.419	21.801	12.196	1.00	21.34
ATOM	2373	C	GLY	348	14.065	21.817	10.814	1.00	24.59
ATOM	2374	O	GLY	348	14.514	21.617	10.119	1.00	24.89
ATOM	2375	N	MET	349	11.908	24.618	10.351	1.00	23.92
ATOM	2376	CA	MET	349	14.413	24.413	9.014	1.00	27.75
ATOM	2377	CB	MET	349	11.349	25.215	8.350	1.00	28.13
ATOM	2378	CG	MET	349	10.662	24.419	8.019	1.00	31.17
ATOM	2379	SD	MET	349	10.740	25.411	7.219	1.00	34.95
ATOM	2380	CE	MET	349	11.415	25.118	5.580	1.00	34.51
ATOM	2381	C	MET	349	15.719	25.111	9.118	1.00	27.11
ATOM	2382	O	MET	349	16.710	24.819	8.448	1.00	26.59
ATOM	2383	N	THR	350	15.714	26.215	9.975	1.00	27.64
ATOM	2384	CA	THR	350	16.915	27.011	10.113	1.00	28.17
ATOM	2385	CB	THR	350	16.514	28.315	10.805	1.00	31.28
ATOM	2386	CG1	THR	350	17.710	29.218	10.770	1.00	34.87
ATOM	2387	CG2	THR	350	16.111	28.111	12.249	1.00	31.41
ATOM	2388	C	THR	350	18.018	26.310	10.926	1.00	28.70
ATOM	2389	O	THR	350	19.215	26.616	10.713	1.00	27.78
ATOM	2390	N	VAL	351	17.217	25.410	11.836	1.00	26.14
ATOM	2391	CA	VAL	351	18.710	24.712	12.648	1.00	26.15
ATOM	2392	CB	VAL	351	18.317	24.810	14.156	1.00	27.11
ATOM	2393	CG1	VAL	351	19.316	24.016	14.966	1.00	26.73
ATOM	2394	CG2	VAL	351	18.218	24.219	14.213	1.00	26.14
ATOM	2395	C	VAL	351	18.915	23.317	12.214	1.00	25.11
ATOM	2396	O	VAL	351	20.118	22.913	12.013	1.00	22.99
ATOM	2397	N	GLN	352	17.919	22.514	12.064	1.00	24.16
ATOM	2398	CA	GLN	352	16.516	21.117	11.613	1.00	23.15
ATOM	2399	CB	GLN	352	16.819	20.310	12.209	1.00	22.78
ATOM	2400	CG	GLN	352	14.519	20.411	13.813	1.00	21.11
ATOM	2401	CD	GLN	352	16.315	19.715	14.116	1.00	20.15
ATOM	2402	OE1	GLN	352	14.419	19.417	12.414	1.00	19.61
ATOM	2403	NEO	GLN	352	15.317	19.476	13.414	1.00	18.15
ATOM	2404	C	GLN	352	16.116	20.911	10.159	1.00	24.17
ATOM	2405	O	GLN	352	18.717	19.911	9.713	1.00	24.66
ATOM	2406	N	GLY	353	17.613	21.910	9.365	1.00	24.94
ATOM	2407	CA	GLY	353	17.613	21.799	7.919	1.00	24.108
ATOM	2408	C	GLY	353	16.617	20.991	7.341	1.00	24.43
ATOM	2409	O	GLY	353	16.866	20.335	6.219	1.00	24.40
ATOM	2410	N	HIS	354	16.893	21.020	7.781	1.00	28.07
ATOM	2411	CA	HIS	354	14.716	20.211	7.116	1.00	24.67
ATOM	2412	CP	HIS	354	13.316	19.867	8.266	1.00	23.90
ATOM	2413	CG	HIS	354	14.961	19.740	9.111	1.00	24.10
ATOM	2414	CH	HIS	354	14.117	19.711	10.168	1.00	26.16
ATOM	2415	NE1	HIS	354	14.111	17.511	8.119	1.00	28.11

ATCM	2416	CE1	HIS	354	14.741	16.766	9.671	1.00	28.40
ATCM	2417	NE2	HIS	354	14.693	17.484	10.780	1.00	27.51
ATCM	2418	C	HIS	354	13.570	21.162	6.198	1.00	31.29
ATCM	2419	O	HIS	354	11.615	22.389	6.227	1.00	31.35
ATCM	2420	N	ASF	355	11.715	20.518	5.326	1.00	35.86
ATCM	2421	CA	ASF	355	11.972	21.214	4.301	1.00	34.61
ATCM	2422	CB	ASF	355	11.479	20.211	5.241	1.00	36.73
ATCM	2423	CG	ASF	355	10.671	19.081	3.641	1.00	41.27
ATCM	2424	CD1	ASF	355	9.616	19.349	4.430	1.00	45.21
ATCM	2425	CD2	ASF	355	11.119	17.916	3.719	1.00	44.12
ATCM	2426	C	ASF	355	10.786	21.953	4.978	1.00	34.04
ATCM	2427	G	ASF	355	10.248	21.898	4.348	1.00	35.77
ATCM	2428	N	SEF	356	10.282	21.563	3.111	1.00	31.25
ATCM	2429	CA	SEF	356	9.118	21.168	3.621	1.00	29.42
ATCM	2430	CB	SEF	356	7.993	21.353	3.531	1.00	29.55
ATCM	2431	CG	SEF	356	7.976	20.644	3.608	1.00	30.46
ATCM	2432	C	SEF	356	9.164	22.658	3.330	1.00	26.94
ATCM	2433	C	SEF	356	10.642	21.607	3.739	1.00	26.83
ATCM	2434	N	THF	357	8.612	22.499	3.141	1.00	16.18
ATCM	2435	CA	THF	357	8.313	22.491	16.591	1.00	14.80
ATCM	2436	CB	THF	357	8.215	23.749	11.214	1.00	15.50
ATCM	2437	CG1	THF	357	6.710	23.711	11.088	1.00	27.16
ATCM	2438	CG2	THF	357	8.217	25.047	10.626	1.00	26.01
ATCM	2439	C	THF	357	8.241	21.188	11.211	1.00	21.78
ATCM	2440	O	THF	357	8.112	21.110	11.431	1.00	21.76
ATCM	2441	N	LEU	358	7.849	20.468	10.470	1.00	21.94
ATCM	2442	CA	LEU	358	6.777	19.306	11.336	1.00	20.73
ATCM	2443	CB	LEU	358	5.967	18.331	8.916	1.00	22.06
ATCM	2444	CG	LEU	358	4.646	19.200	3.643	1.00	22.17
ATCM	2445	CD1	LEU	358	5.036	20.331	3.608	1.00	21.34
ATCM	2446	CD2	LEU	358	5.031	18.111	3.617	1.00	21.01
ATCM	2447	C	LEU	358	7.930	18.111	11.883	1.00	19.69
ATCM	2448	O	LEU	358	7.168	17.711	11.711	1.00	19.43
ATCM	2449	N	PRO	359	6.162	18.007	11.339	1.00	19.49
ATCM	2450	CA	PRO	359	6.349	18.471	11.667	1.00	20.00
ATCM	2451	CB	PRO	359	6.738	17.111	11.637	1.00	19.78
ATCM	2452	CG	PRO	359	10.017	18.973	11.637	1.00	21.13
ATCM	2453	CG1	PRO	359	10.835	18.171	11.611	1.00	23.17
ATCM	2454	C	PRO	359	10.134	17.133	11.461	1.00	18.17
ATCM	2455	O	PRO	359	10.029	16.710	14.211	1.00	16.16
ATCM	2456	N	VAL	360	6.663	18.800	13.636	1.00	17.80
ATCM	2457	CA	VAL	360	10.007	18.393	15.116	1.00	17.74
ATCM	2458	CB	VAL	360	10.314	20.816	15.116	1.00	16.35
ATCM	2459	CG1	VAL	360	10.676	21.301	14.383	1.00	15.89
ATCM	2460	CG2	VAL	360	11.067	21.303	14.114	1.00	16.09
ATCM	2461	C	VAL	360	9.559	18.683	14.295	1.00	17.81
ATCM	2462	O	VAL	360	8.362	18.127	14.151	1.00	16.42
ATCM	2463	N	THR	361	13.330	18.056	17.195	1.00	18.43
ATCM	2464	CA	THR	361	8.566	17.136	14.283	1.00	19.16
ATCM	2465	CB	THR	361	10.116	15.983	14.549	1.00	23.20
ATCM	2466	CG1	THR	361	10.537	15.353	14.239	1.00	26.54
ATCM	2467	CG2	THR	361	8.111	15.091	14.152	1.00	27.15
ATCM	2468	C	THR	361	6.656	18.196	15.171	1.00	19.28
ATCM	2469	O	THR	361	10.412	14.138	14.673	1.00	17.15
ATCM	2470	N	VAL	362	8.310	17.341	2.144	1.00	17.01
ATCM	2471	CA	VAL	362	8.307	18.815	21.827	1.00	17.54
ATCM	2472	CB	VAL	362	7.743	17.111	2.1787	1.00	16.12
ATCM	2473	CG1	VAL	362	7.315	18.543	24.156	1.00	15.29
ATCM	2474	CG2	VAL	362	6.362	16.109	21.198	1.00	14.15
ATCM	2475	C	VAL	362	10.122	18.483	21.450	1.00	16.16
ATCM	2476	O	VAL	362	10.703	18.415	22.009	1.00	16.16
ATCM	2477	N	ALA	363	10.312	17.113	21.151	1.00	17.16
ATCM	2478	CA	ALA	363	10.114	18.553	22.103	1.00	13.11
ATCM	2479	CB	ALA	363	12.033	18.633	21.632	1.00	20.11
ATCM	2480	C	ALA	363	13.161	18.026	21.327	1.00	18.11
ATCM	2481	O	ALA	363	14.012	18.574	21.043	1.00	17.11
ATCM	2482	N	ASP	364	13.019	18.373	21.032	1.00	16.11
ATCM	2483	CA	ASP	364	13.423	18.334	21.371	1.00	16.57
ATCM	2484	CB	ASP	364	13.661	18.110	18.354	1.00	15.19
ATCM	2485	CG	ASP	364	13.921	18.096	18.123	1.00	17.12
ATCM	2486	CD1	ASP	364	14.817	17.312	18.572	1.00	15.12
ATCM	2487	CD2	ASP	364	13.311	17.873	17.172	1.00	19.12
ATCM	2488	C	ASP	364	13.631	20.720	20.374	1.00	15.33
ATCM	2489	O	ASP	364	14.638	21.421	21.320	1.00	17.32
ATCM	2490	N	ILE	365	12.437	21.115	21.088	1.00	17.64
ATCM	2491	CA	ILE	365	12.682	22.432	21.051	1.00	16.69
ATCM	2492	CB	ILE	365	13.561	22.646	21.717	1.00	16.19

ATOM	2493	CG2	ILE	365	10.265	23.986	22.395	1.00	19.39
ATOM	2494	CG1	ILE	365	9.946	22.599	20.310	1.00	16.26
ATOM	2495	CD1	ILE	365	10.399	23.712	19.379	1.00	17.28
ATOM	2496	C	ILE	365	12.646	22.560	23.066	1.00	16.71
ATOM	2497	O	ILE	365	12.217	23.596	23.423	1.00	15.83
ATOM	2498	N	ALA	366	12.474	21.518	22.878	1.00	15.24
ATOM	2499	CA	ALA	366	12.959	21.549	22.260	1.00	15.61
ATOM	2500	CB	ALA	366	12.553	20.278	25.999	1.00	15.05
ATOM	2501	C	ALA	366	14.474	21.688	25.292	1.00	15.90
ATOM	2502	O	ALA	366	15.036	22.763	26.161	1.00	16.01
ATOM	2503	N	TYR	367	15.126	21.040	24.541	1.00	15.21
ATOM	2504	CA	TYR	367	16.596	21.093	24.747	1.00	15.10
ATOM	2505	CB	TYR	367	17.082	20.191	22.106	1.00	14.11
ATOM	2506	CG	TYR	367	18.577	20.270	22.837	1.00	15.47
ATOM	2507	CD1	TYR	367	19.504	19.782	22.255	1.00	15.21
ATOM	2508	CE1	TYR	367	20.881	19.830	22.492	1.00	16.91
ATOM	2509	CD2	TYR	367	19.060	20.815	21.651	1.00	17.23
ATOM	2510	CE2	TYR	367	20.428	20.868	21.580	1.00	17.96
ATOM	2511	CZ	TYR	367	21.250	20.371	21.306	1.00	16.29
ATOM	2512	OH	TYR	367	21.681	20.386	21.015	1.00	15.79
ATOM	2513	C	TYR	367	17.951	22.325	22.988	1.00	16.83
ATOM	2514	O	TYR	367	17.912	23.661	24.685	1.00	17.22
ATOM	2515	N	HIS	368	18.467	23.241	21.965	1.00	17.62
ATOM	2516	CA	HIS	368	19.811	24.511	21.611	1.00	19.22
ATOM	2517	CP	HIS	368	18.277	24.847	21.229	1.00	18.64
ATOM	2518	CG	HIS	368	19.970	24.217	21.114	1.00	19.41
ATOM	2519	CH2	HIS	368	19.608	23.014	19.499	1.00	19.84
ATOM	2520	NH1	HIS	368	18.241	24.439	19.690	1.00	20.14
ATOM	2521	CE1	HIS	368	19.611	23.370	19.775	1.00	20.29
ATOM	2522	NE2	HIS	368	17.682	22.694	19.587	1.00	20.36
ATOM	2523	C	HIS	368	19.266	25.316	21.661	1.00	20.61
ATOM	2524	O	HIS	368	17.047	26.500	21.936	1.00	21.46
ATOM	2525	N	THR	369	19.200	25.258	24.259	1.00	19.85
ATOM	2526	CA	THR	369	19.677	26.243	25.289	1.00	21.25
ATOM	2527	CB	THR	369	19.315	25.659	25.796	1.00	21.21
ATOM	2528	CG1	THR	369	17.316	25.804	24.753	1.00	21.15
ATOM	2529	CG2	THR	369	17.860	26.466	25.012	1.00	21.14
ATOM	2530	C	THR	369	17.624	26.231	26.474	1.00	22.54
ATOM	2531	O	THR	369	19.995	27.738	26.974	1.00	23.65
ATOM	2532	N	ALA	370	19.154	25.300	26.919	1.00	21.27
ATOM	2533	CA	ALA	370	17.978	25.078	26.051	1.00	23.72
ATOM	2534	CB	ALA	370	17.481	23.440	28.372	1.00	22.74
ATOM	2535	C	ALA	370	18.322	25.913	27.752	1.00	24.33
ATOM	2536	O	ALA	370	18.775	26.194	28.593	1.00	24.38
ATOM	2537	N	ALA	371	18.862	25.744	25.548	1.00	24.54
ATOM	2538	CA	ALA	371	20.050	26.580	26.115	1.00	26.15
ATOM	2539	CB	ALA	371	20.465	26.019	24.719	1.00	24.54
ATOM	2540	C	ALA	371	19.795	25.986	25.109	1.00	27.22
ATOM	2541	O	ALA	371	20.610	28.768	26.601	1.00	29.91
ATOM	2542	N	VAL	372	19.662	28.387	23.543	1.00	27.69
ATOM	2543	CA	VAL	372	18.299	29.796	25.473	1.00	28.62
ATOM	2544	CB	VAL	372	19.971	29.092	24.699	1.00	29.37
ATOM	2545	CG1	VAL	372	19.541	31.248	24.749	1.00	28.12
ATOM	2546	CG2	VAL	372	17.154	29.546	23.257	1.00	29.50
ATOM	2547	C	VAL	372	13.154	30.393	25.868	1.00	29.28
ATOM	2548	O	VAL	372	13.634	31.392	27.130	1.00	28.13
ATOM	2549	N	ARG	373	17.429	29.661	27.762	1.00	29.17
ATOM	2550	CA	ARG	373	17.299	30.133	29.128	1.00	29.87
ATOM	2551	CB	ARG	373	17.500	29.113	29.451	1.00	29.61
ATOM	2552	CG	ARG	373	17.379	29.371	31.432	1.00	29.17
ATOM	2553	CI	ARG	373	15.773	30.358	31.623	1.00	26.49
ATOM	2554	NE	ARG	373	13.370	30.903	31.028	1.00	28.14
ATOM	2555	CZ	ARG	373	13.703	32.022	30.961	1.00	27.87
ATOM	2556	NH1	ARG	373	14.367	33.169	31.342	1.00	27.29
ATOM	2557	NH2	ARG	373	12.427	31.967	35.814	1.00	28.85
ATOM	2558	C	ARG	373	18.639	30.415	32.811	1.00	31.14
ATOM	2559	O	ARG	373	15.763	31.394	36.547	1.00	31.51
ATOM	2560	N	ARG	374	19.615	29.354	29.573	1.00	32.05
ATOM	2561	CA	ARG	374	20.708	29.743	30.171	1.00	34.25
ATOM	2562	CB	ARG	374	21.873	28.597	29.799	1.00	33.29
ATOM	2563	CG	ARG	374	21.388	27.221	30.262	1.00	33.83
ATOM	2564	C	ARG	374	22.537	26.112	30.119	1.00	33.72
ATOM	2565	NE	ARG	374	22.071	24.854	30.459	1.00	34.23
ATOM	2566	CZ	ARG	374	21.510	24.133	29.565	1.00	33.76
ATOM	2567	NH1	ARG	374	21.129	24.423	29.411	1.00	36.25
ATOM	2568	NH2	ARG	374	21.141	22.817	29.636	1.00	34.84
ATOM	2569	C	ARG	374	21.732	31.968	29.313	1.00	34.22

ATOM	2570	O	ARG	374	22.160	31.780	30.496	1.00	36.00
ATOM	2571	N	GLY	375	21.371	31.388	28.439	1.00	35.42
ATOM	2572	CA	GLY	375	21.866	32.621	27.892	1.00	36.12
ATOM	2573	C	GLY	375	21.128	33.871	28.331	1.00	36.83
ATOM	2574	O	GLY	375	21.711	34.954	28.352	1.00	36.60
ATOM	2575	N	ALA	376	19.851	33.774	28.683	1.00	36.57
ATOM	2576	CA	ALA	376	19.017	34.851	29.114	1.00	37.33
ATOM	2577	CB	ALA	376	18.332	35.874	27.906	1.00	36.41
ATOM	2578	C	ALA	376	17.985	34.434	30.145	1.00	35.86
ATOM	2579	O	ALA	376	16.865	34.265	29.827	1.00	38.51
ATOM	2580	N	PRO	377	18.410	34.315	31.401	1.00	38.37
ATOM	2581	CD	PRO	377	19.789	34.359	31.901	1.00	38.55
ATOM	2582	CA	PRO	377	17.569	33.760	32.478	1.00	38.64
ATOM	2583	CB	PRO	377	18.474	35.389	32.586	1.00	39.17
ATOM	2584	CG	PRO	377	19.588	34.359	33.404	1.00	38.79
ATOM	2585	C	PRO	377	16.512	34.851	32.936	1.00	38.71
ATOM	2586	O	PRO	377	15.693	34.556	33.814	1.00	38.56
ATOM	2587	N	ASN	378	16.580	36.033	32.534	1.00	38.88
ATOM	2588	CA	ASN	378	15.682	37.120	32.707	1.00	39.81
ATOM	2589	CB	ASN	378	16.486	36.288	33.279	1.00	41.15
ATOM	2590	CG	ASN	378	17.136	37.989	34.481	1.00	41.16
ATOM	2591	CD1	ASN	378	16.779	37.168	35.503	1.00	42.12
ATOM	2592	ND1	ASN	378	18.641	37.018	34.269	1.00	42.85
ATOM	2593	C	ASN	378	14.848	37.801	31.540	1.00	39.91
ATOM	2594	O	ASN	378	14.379	38.754	31.541	1.00	42.79
ATOM	2595	N	CYS	379	14.674	38.380	30.541	1.00	38.10
ATOM	2596	CA	CYS	379	13.843	37.164	29.383	1.00	36.58
ATOM	2597	CB	CYS	379	14.581	38.886	28.683	1.00	36.66
ATOM	2598	SG	CYS	379	14.811	39.106	27.553	1.00	37.72
ATOM	2599	C	CYS	379	12.444	38.460	29.355	1.00	34.98
ATOM	2600	O	CYS	379	12.240	38.483	30.639	1.00	35.66
ATOM	2601	N	LEU	380	11.576	37.700	28.169	1.00	38.89
ATOM	2602	CA	LEU	380	10.261	36.411	28.597	1.00	32.87
ATOM	2603	CB	LEU	380	9.263	37.389	27.910	1.00	34.44
ATOM	2604	CG	LEU	380	7.810	36.333	27.741	1.00	34.49
ATOM	2605	CD1	LEU	380	7.343	36.606	29.091	1.00	36.11
ATOM	2606	CD2	LEU	380	6.543	37.113	27.124	1.00	36.04
ATOM	2607	C	LEU	380	10.445	37.387	27.313	1.00	32.33
ATOM	2608	O	LEU	380	10.675	37.336	26.149	1.00	31.37
ATOM	2609	N	LEU	381	10.477	34.783	27.723	1.00	30.46
ATOM	2610	CA	LEU	381	10.726	33.794	26.701	1.00	38.43
ATOM	2611	CB	LEU	381	11.683	31.738	27.416	1.00	38.30
ATOM	2612	CG	LEU	381	12.577	31.391	26.513	1.00	39.36
ATOM	2613	CD1	LEU	381	13.529	30.639	27.413	1.00	38.30
ATOM	2614	CD2	LEU	381	11.746	30.134	25.693	1.00	34.72
ATOM	2615	C	LEU	381	9.463	33.334	26.363	1.00	36.34
ATOM	2616	O	LEU	381	8.751	32.643	27.104	1.00	33.66
ATOM	2617	N	LEU	382	9.184	33.373	25.013	1.00	36.40
ATOM	2618	CA	LEU	382	8.616	31.706	24.456	1.00	36.12
ATOM	2619	CB	LEU	382	7.317	32.609	23.415	1.00	37.68
ATOM	2620	CG	LEU	382	6.343	33.683	23.955	1.00	39.10
ATOM	2621	CD1	LEU	382	7.112	34.713	24.751	1.00	33.34
ATOM	2622	CD2	LEU	382	5.667	34.344	23.773	1.00	33.46
ATOM	2623	C	LEU	382	8.582	30.469	24.745	1.00	24.37
ATOM	2624	O	LEU	382	9.445	30.493	23.973	1.00	24.72
ATOM	2625	N	ALA	383	7.343	33.323	24.027	1.00	24.02
ATOM	2626	CA	ALA	383	8.386	34.960	23.423	1.00	23.33
ATOM	2627	CB	ALA	383	8.641	32.953	24.503	1.00	23.02
ATOM	2628	C	ALA	383	7.157	37.530	23.567	1.00	23.94
ATOM	2629	O	ALA	383	6.916	37.116	23.017	1.00	23.69
ATOM	2630	N	ASP	384	7.167	37.165	23.331	1.00	23.39
ATOM	2631	CA	ASP	384	6.143	36.631	23.448	1.00	23.57
ATOM	2632	CB	ASP	384	6.373	28.839	19.825	1.00	21.26
ATOM	2633	CG	ASP	384	6.379	27.347	18.232	1.00	21.66
ATOM	2634	CD1	ASP	384	5.335	28.372	16.601	1.00	26.53
ATOM	2635	CD2	ASP	384	6.887	28.306	17.187	1.00	24.65
ATOM	2636	C	ASP	384	6.132	25.180	20.751	1.00	14.93
ATOM	2637	O	ASP	384	7.017	24.425	21.139	1.00	13.05
ATOM	2638	N	LEU	385	4.877	24.800	20.590	1.00	18.72
ATOM	2639	CA	LEU	385	4.504	23.398	20.789	1.00	13.65
ATOM	2640	CB	LEU	385	3.133	24.222	21.474	1.00	17.71
ATOM	2641	CG	LEU	385	3.087	23.376	22.961	1.00	18.98
ATOM	2642	CD1	LEU	385	1.716	22.965	23.439	1.00	19.13
ATOM	2643	CD2	LEU	385	4.162	22.498	23.533	1.00	16.92
ATOM	2644	C	LEU	385	4.462	23.012	19.246	1.00	20.97
ATOM	2645	O	LEU	385	3.705	23.596	18.461	1.00	21.82
ATOM	2646	N	LEU	386	5.793	22.047	18.841	1.00	13.86

ATOM	2647	CF	PRO	386	6.168	21.273	19.747	1.00	20.26
ATOM	2648	CA	PRC	386	5.416	21.554	17.466	1.00	19.86
ATOM	2649	CF	PRC	386	6.626	20.633	17.537	1.00	21.72
ATOM	2650	CG	PRC	386	6.511	20.061	18.921	1.00	20.75
ATOM	2651	C	PRC	236	4.184	20.846	16.965	1.00	19.67
ATOM	2652	O	PRO	386	7.167	20.679	17.586	1.00	19.34
ATOM	2653	N	PHE	387	4.300	20.477	15.647	1.00	19.25
ATOM	2654	CA	PHE	387	5.247	19.779	14.927	1.00	19.90
ATOM	2655	CB	PHE	387	3.820	19.249	13.580	1.00	20.09
ATOM	2656	CG	PHE	387	2.855	18.253	12.861	1.00	20.40
ATOM	2657	CD1	PHE	387	1.657	11.573	12.479	1.00	21.35
ATOM	2658	CD2	PHE	387	3.451	16.992	12.545	1.00	21.11
ATOM	2659	CE1	PHE	387	0.662	17.651	11.789	1.00	21.07
ATOM	2660	CE2	PHE	387	2.681	16.064	11.858	1.00	19.74
ATOM	2661	C2	PHE	387	1.177	16.394	11.478	1.00	21.80
ATOM	2662	C	PHE	387	2.683	18.551	15.741	1.00	19.09
ATOM	2663	O	PHE	387	1.435	17.729	16.743	1.00	17.03
ATOM	2664	N	MET	388	1.761	18.562	15.881	1.00	17.04
ATOM	2665	CA	MET	388	0.615	17.128	16.189	1.00	19.41
ATOM	2666	CB	MET	388	0.742	16.197	15.839	1.00	19.83
ATOM	2667	CG	MET	388	-0.430	17.155	16.644	1.00	19.70
ATOM	2668	SD	MET	388	-1.791	17.824	15.362	1.00	19.18
ATOM	2669	CE	MET	388	-1.889	17.299	14.685	1.00	21.01
ATOM	2670	C	MET	388	6.986	17.132	18.662	1.00	19.34
ATOM	2671	O	MET	388	7.779	18.254	18.622	1.00	19.91
ATOM	2672	N	ALA	89	1.520	17.376	18.688	1.00	17.11
ATOM	2673	CA	ALA	89	1.629	17.174	20.095	1.00	17.62
ATOM	2674	CB	ALA	89	3.178	16.134	20.345	1.00	18.11
ATOM	2675	C	ALA	89	0.764	18.839	19.987	1.00	17.04
ATOM	2676	O	ALA	89	0.891	17.891	12.211	1.00	17.48
ATOM	2677	N	TYR	90	-0.343	16.031	20.367	1.00	17.06
ATOM	2678	CA	TYR	90	-1.496	16.737	21.111	1.00	18.54
ATOM	2679	CB	TYR	90	-1.423	21.261	21.266	1.00	17.65
ATOM	2680	CG	TYR	90	-1.128	21.020	19.987	1.00	18.84
ATOM	2681	CD1	TYR	90	-2.157	21.468	19.157	1.00	21.00
ATOM	2682	CE1	TYR	90	-1.881	21.104	17.956	1.00	21.33
ATOM	2683	CE2	TYR	90	0.183	21.247	19.585	1.00	19.87
ATOM	2684	CH	TYR	90	0.471	23.895	18.480	1.00	21.63
ATOM	2685	CG	TYR	90	-0.566	21.126	17.179	1.00	21.64
ATOM	2686	CH	TYR	90	-0.261	23.963	18.394	1.00	21.80
ATOM	2687	C	TYR	90	-2.790	17.291	20.437	1.00	18.26
ATOM	2688	O	TYR	90	-3.765	21.039	20.376	1.00	18.41
ATOM	2689	N	ALA	91	-2.780	17.050	19.949	1.00	18.07
ATOM	2690	CA	ALA	91	-3.915	17.417	19.353	1.00	17.21
ATOM	2691	CB	ALA	91	-3.497	16.109	18.656	1.00	18.23
ATOM	2692	C	ALA	91	-5.112	17.258	20.177	1.00	17.86
ATOM	2693	O	ALA	91	-6.250	17.117	19.719	1.00	18.08
ATOM	2694	N	THR	92	-4.846	17.745	21.478	1.00	19.74
ATOM	2695	CA	THR	92	-5.401	17.052	22.474	1.00	17.08
ATOM	2696	CB	THR	92	-6.124	17.695	22.917	1.00	17.15
ATOM	2697	CG1	THR	92	-4.680	17.346	23.645	1.00	17.01
ATOM	2698	CG2	THR	92	-6.350	14.704	21.713	1.00	18.95
ATOM	2699	C	THR	92	-5.145	17.857	23.682	1.00	14.74
ATOM	2700	O	THR	92	-4.352	17.672	23.866	1.00	17.11
ATOM	2701	N	PRO	93	-6.389	14.315	24.515	1.00	14.96
ATOM	2702	CA	PRO	93	-7.451	17.391	24.353	1.00	17.31
ATOM	2703	CB	PRO	93	-7.110	17.090	25.696	1.00	16.25
ATOM	2704	CG	PRO	93	-7.349	17.309	26.398	1.00	14.99
ATOM	2705	CH	PRO	93	-5.296	17.436	25.243	1.00	14.27
ATOM	2706	C	PRO	93	-5.016	17.326	26.550	1.00	16.25
ATOM	2707	O	PRO	93	-3.783	17.855	26.964	1.00	16.74
ATOM	2708	N	GLU	94	-4.323	17.544	26.781	1.00	17.06
ATOM	2709	CA	GLU	94	-4.474	18.187	27.560	1.00	16.79
ATOM	2710	CB	GLU	94	-5.544	14.771	27.591	1.00	21.17
ATOM	2711	CG	GLU	94	-4.455	13.820	28.636	1.00	20.13
ATOM	2712	CH	GLU	94	-5.105	11.495	28.617	1.00	31.05
ATOM	2713	CD1	GLU	94	-4.687	11.644	27.797	1.00	35.69
ATOM	2714	CD2	GLU	94	-6.355	12.288	29.402	1.00	34.53
ATOM	2715	C	GLU	94	-3.529	16.167	27.688	1.00	17.93
ATOM	2716	O	GLU	94	-5.092	16.296	27.878	1.00	17.60
ATOM	2717	N	GLN	95	-3.833	16.092	25.783	1.00	16.16
ATOM	2718	CA	GLN	95	-1.469	15.973	25.261	1.00	18.13
ATOM	2719	CB	GLN	95	-1.451	15.465	23.814	1.00	19.76
ATOM	2720	CG	GLN	95	-1.662	13.958	22.732	1.00	16.51
ATOM	2721	CH	GLN	95	-1.756	13.447	22.370	1.00	27.20
ATOM	2722	CD1	GLN	95	-0.831	12.599	21.531	1.00	31.74
ATOM	2723	CD2	GLN	95	-1.889	12.836	21.180	1.00	31.16

ATOM	2724	C	GLN	395	-0.812	17.342	25.348	1.00	16.31
ATOM	2725	O	GLN	395	0.394	17.448	25.560	1.00	15.19
ATOM	2726	N	ALA	396	-1.611	16.389	25.172	1.00	15.71
ATOM	2727	CA	ALA	396	-1.097	16.748	25.258	1.00	15.45
ATOM	2728	CB	ALA	396	-2.203	20.754	24.941	1.00	14.95
ATOM	2729	C	ALA	396	-0.552	19.995	26.665	1.00	15.89
ATOM	2730	O	ALA	396	0.225	20.548	26.832	1.00	15.31
ATOM	2731	N	PHE	397	-1.266	19.981	27.679	1.00	17.14
ATOM	2732	CA	PHE	397	-0.262	19.786	28.019	1.00	17.67
ATOM	2733	CB	PHE	397	-1.855	19.179	28.062	1.00	17.74
ATOM	2734	CG	PHE	397	-3.276	19.676	28.876	1.00	15.92
ATOM	2735	CD1	PHE	397	-3.371	20.885	29.068	1.00	17.98
ATOM	2736	CD2	PHE	397	-4.325	18.785	30.142	1.00	18.15
ATOM	2737	CE1	PHE	397	-4.451	21.311	29.112	1.00	20.21
ATOM	2738	CE2	PHE	397	-5.250	19.197	30.163	1.00	19.30
ATOM	2739	CZ	PHE	397	-5.234	20.485	29.591	1.00	20.13
ATOM	2740	C	THE	398	0.496	19.116	29.257	1.00	17.87
ATOM	2741	O	THE	398	1.297	19.710	29.437	1.00	18.64
ATOM	2742	N	GLU	398	0.628	17.887	28.296	1.00	18.39
ATOM	2743	CA	GLU	398	1.813	17.169	28.331	1.00	19.60
ATOM	2744	CB	GLU	398	1.622	18.691	28.413	1.00	22.86
ATOM	2745	CG	GLU	398	1.349	19.763	28.331	1.00	22.13
ATOM	2746	CI	GLU	398	2.100	18.240	29.105	1.00	31.00
ATOM	2747	OE1	GLU	398	1.140	18.603	29.338	1.00	32.57
ATOM	2748	OE2	GLU	398	1.814	18.804	29.606	1.00	34.89
ATOM	2749	C	GLU	398	2.147	17.740	28.134	1.00	17.66
ATOM	2750	O	GLU	398	4.139	17.864	28.101	1.00	17.51
ATOM	2751	N	ASN	399	2.126	18.143	26.977	1.00	17.57
ATOM	2752	CA	ASN	399	2.901	18.550	26.184	1.00	17.30
ATOM	2753	CB	ASN	399	2.145	17.695	24.636	1.00	17.51
ATOM	2754	CG	ASN	399	2.154	17.274	24.131	1.00	17.34
ATOM	2755	OD1	ASN	399	4.401	16.480	24.257	1.00	16.74
ATOM	2756	ND2	ASN	399	2.814	16.979	23.137	1.00	14.86
ATOM	2757	C	ASN	399	4.148	20.174	26.338	1.00	16.39
ATOM	2758	O	ASN	399	5.420	20.560	26.342	1.00	14.68
ATOM	2759	N	ALA	400	2.131	20.918	26.943	1.00	17.41
ATOM	2760	CA	ALA	400	2.461	21.314	27.403	1.00	17.58
ATOM	2761	CB	ALA	400	2.136	23.018	27.638	1.00	17.36
ATOM	2762	C	ALA	400	3.121	21.246	28.634	1.00	17.52
ATOM	2763	O	ALA	400	5.199	23.018	28.332	1.00	18.40
ATOM	2764	N	ALA	401	2.135	21.298	29.358	1.00	18.00
ATOM	2765	CA	ALA	401	4.619	21.152	30.325	1.00	17.86
ATOM	2766	CB	ALA	401	2.853	21.085	31.698	1.00	17.14
ATOM	2767	C	ALA	401	6.787	21.600	30.539	1.00	17.10
ATOM	2768	O	ALA	401	6.966	21.243	31.341	1.00	17.32
ATOM	2769	N	THR	402	6.343	23.604	29.559	1.00	17.75
ATOM	2770	CA	THR	402	5.114	19.604	29.359	1.00	17.30
ATOM	2771	CB	THR	402	2.111	18.579	18.130	1.00	17.19
ATOM	2772	OG1	THR	402	2.194	18.332	18.351	1.00	15.36
ATOM	2773	CG2	THR	402	9.169	18.361	17.621	1.00	17.10
ATOM	2774	C	THR	402	8.576	20.107	18.383	1.00	18.69
ATOM	2775	O	THR	402	9.660	21.954	19.380	1.00	18.32
ATOM	2776	N	VAL	403	1.963	21.675	18.136	1.00	18.13
ATOM	2777	CA	VAL	403	6.445	21.830	17.803	1.00	19.86
ATOM	2778	CB	VAL	403	8.313	23.416	16.771	1.00	20.58
ATOM	2779	CG1	VAL	403	9.311	24.107	15.600	1.00	25.49
ATOM	2780	CG2	VAL	403	7.337	21.190	15.344	1.00	22.64
ATOM	2781	C	VAL	403	8.346	23.901	18.102	1.00	21.59
ATOM	2782	O	VAL	403	9.315	24.761	16.363	1.00	21.71
ATOM	2783	N	MET	404	2.137	23.993	19.361	1.00	21.27
ATOM	2784	CA	MET	404	2.813	24.643	19.981	1.00	23.55
ATOM	2785	CB	MET	404	8.131	24.913	11.331	1.00	26.11
ATOM	2786	CG	MET	404	3.331	25.563	15.383	1.00	30.04
ATOM	2787	SD	MET	404	1.514	27.111	15.351	1.00	34.43
ATOM	2788	CE	MET	404	1.835	27.835	11.673	1.00	33.59
ATOM	2789	C	MET	404	3.931	24.471	11.301	1.00	23.56
ATOM	2790	O	MET	404	3.613	25.335	12.163	1.00	23.03
ATOM	2791	N	ARG	405	3.933	23.129	12.353	1.00	20.96
ATOM	2792	CA	ARG	405	3.998	23.739	13.003	1.00	21.23
ATOM	2793	CB	ARG	405	3.813	21.254	13.363	1.00	19.71
ATOM	2794	CG	ARG	405	6.471	20.909	13.673	1.00	19.61
ATOM	2795	CF	ARG	405	8.506	19.576	14.131	1.00	18.35
ATOM	2796	NE	ARG	405	7.157	19.145	15.399	1.00	22.57
ATOM	2797	CZ	ARG	405	6.430	18.474	14.199	1.00	21.33
ATOM	2798	NH1	ARG	405	6.717	18.139	13.175	1.00	24.18
ATOM	2799	NH2	ARG	405	5.161	18.169	14.669	1.00	20.27
ATOM	2800	C	ARG	405	11.297	22.319	13.419	1.00	11.13

ATOM	2801	O	ARG	405	12.385	23.004	33.144	1.00	20.18
ATOM	2802	N	ALA	406	11.465	21.064	31.097	1.00	21.02
ATOM	2803	CA	ALA	406	12.734	25.271	30.421	1.00	21.30
ATOM	2804	CB	ALA	406	12.625	27.841	28.961	1.00	22.53
ATOM	2805	C	ALA	406	13.186	24.731	30.511	1.00	24.17
ATOM	2806	O	ALA	406	14.231	21.051	30.182	1.00	24.00
ATOM	2807	N	GLY	407	12.298	25.616	30.950	1.00	21.29
ATOM	2808	CA	GLY	407	12.671	27.017	31.083	1.00	22.57
ATOM	2809	C	GLY	407	11.535	28.021	30.439	1.00	23.36
ATOM	2810	O	GLY	407	11.841	29.224	30.572	1.00	23.55
ATOM	2811	N	ALA	408	10.827	27.531	29.995	1.00	23.27
ATOM	2812	CA	ALA	408	9.892	28.421	28.420	1.00	23.68
ATOM	2813	CB	ALA	408	9.114	27.654	27.771	1.00	23.62
ATOM	2814	C	ALA	408	8.928	29.059	29.415	1.00	23.38
ATOM	2815	O	ALA	408	8.652	28.441	30.144	1.00	23.43
ATOM	2816	N	ASN	409	8.450	30.231	29.662	1.00	23.03
ATOM	2817	CA	ASN	409	7.539	30.991	30.454	1.00	23.18
ATOM	2818	CB	ASN	409	7.971	31.411	30.712	1.00	23.38
ATOM	2819	CG	ASN	409	9.327	31.191	31.154	1.00	24.70
ATOM	2820	OD1	ASN	409	9.572	31.114	32.134	1.00	23.40
ATOM	2821	ND2	ASN	409	10.241	30.141	30.711	1.00	23.34
ATOM	2822	O	ASN	409	8.159	30.991	29.173	1.00	23.67
ATOM	2823	G	ASN	409	9.150	31.211	30.761	1.00	23.16
ATOM	2824	N	MET	410	6.114	30.761	28.115	1.00	24.31
ATOM	2825	CA	MET	410	4.853	30.711	27.711	1.00	23.84
ATOM	2826	CB	MET	410	4.549	30.171	27.139	1.00	26.31
ATOM	2827	CG	MET	410	3.144	30.311	26.416	1.00	21.39
ATOM	2828	SD	MET	410	3.036	31.051	25.915	1.00	21.31
ATOM	2829	CE	MET	410	1.737	31.611	27.112	1.00	21.75
ATOM	2830	C	MET	410	4.947	29.791	26.615	1.00	13.16
ATOM	2831	O	MET	410	6.029	29.491	26.115	1.00	11.44
ATOM	2832	N	VAL	411	3.786	29.311	26.111	1.00	12.20
ATOM	2833	CA	VAL	411	3.726	28.381	25.935	1.00	14.32
ATOM	2834	CB	VAL	411	5.045	27.001	25.132	1.00	13.81
ATOM	2835	CG1	VAL	411	2.615	19.241	24.111	1.00	31.37
ATOM	2836	CG2	VAL	411	3.998	29.211	26.354	1.00	23.71
ATOM	2837	C	VAL	411	2.930	28.901	23.815	1.00	23.38
ATOM	2838	O	VAL	411	1.951	29.811	24.317	1.00	21.43
ATOM	2839	N	LYS	412	3.711	29.311	22.639	1.00	22.34
ATOM	2840	CA	LYS	412	2.974	29.211	21.111	1.00	21.52
ATOM	2841	CB	LYS	412	3.616	30.011	20.611	1.00	22.39
ATOM	2842	CG	LYS	412	2.917	30.711	19.415	1.00	21.36
ATOM	2843	CD	LYS	412	3.715	31.811	18.318	1.00	22.33
ATOM	2844	CE	LYS	412	4.979	31.411	18.113	1.00	22.31
ATOM	2845	NZ	LYS	412	4.638	30.641	18.392	1.00	20.34
ATOM	2846	C	LYS	412	3.123	38.011	20.649	1.00	23.26
ATOM	2847	O	LYS	412	2.830	37.011	20.406	1.00	22.73
ATOM	2848	N	ILE	413	0.379	28.111	20.240	1.00	23.60
ATOM	2849	CA	ILE	413	0.212	27.111	19.117	1.00	26.66
ATOM	2850	CB	ILE	413	-0.718	16.211	23.215	1.00	26.12
ATOM	2851	CG2	ILE	413	0.978	25.411	21.219	1.00	26.91
ATOM	2852	CG1	ILE	413	-1.751	27.211	21.010	1.00	28.28
ATOM	2853	CD1	ILE	413	-2.796	26.411	21.810	1.00	34.14
ATOM	2854	C	ILE	413	-0.589	25.711	13.212	1.00	27.66
ATOM	2855	O	ILE	413	-1.137	26.311	18.414	1.00	24.32
ATOM	2856	N	GLU	414	-0.815	25.011	17.116	1.00	23.05
ATOM	2857	CA	GLU	414	-1.318	25.411	15.918	1.00	30.52
ATOM	2858	CB	GLU	414	-0.589	25.311	14.717	1.00	31.51
ATOM	2859	CG	GLU	414	0.314	25.111	14.561	1.00	32.37
ATOM	2860	CD	GLU	414	1.515	26.111	13.416	1.00	33.72
ATOM	2861	OE1	GLU	414	0.361	26.211	12.568	1.00	32.40
ATOM	2862	OE2	GLU	414	2.832	25.111	13.318	1.00	32.16
ATOM	2863	O	GLU	414	-2.515	26.111	15.817	1.00	32.56
ATOM	2864	C	GLU	414	-2.937	25.811	16.211	1.00	33.34
ATOM	2865	N	GLY	415	-3.672	27.111	15.418	1.00	32.73
ATOM	2866	CA	GLY	415	5.617	27.311	15.315	1.00	33.14
ATOM	2867	C	GLY	415	-6.074	28.411	15.713	1.00	32.54
ATOM	2868	O	GLY	415	-5.744	29.411	16.316	1.00	31.25
ATOM	2869	N	GLY	416	-7.327	29.111	15.111	1.00	33.33
ATOM	2870	CA	GLY	416	-6.386	28.111	15.116	1.00	34.16
ATOM	2871	C	GLY	416	-6.369	29.688	16.650	1.00	35.11
ATOM	2872	O	GLY	416	-8.979	29.275	17.741	1.00	35.72
ATOM	2873	N	GLU	417	-10.659	28.762	16.334	1.00	34.21
ATOM	2874	CA	GLU	417	-11.723	26.370	17.240	1.00	34.97
ATOM	2875	CB	GLU	417	13.076	28.448	16.527	1.00	38.06
ATOM	2876	CG	GLU	417	13.709	29.817	16.511	1.00	44.17
ATOM	2877	C	GLU	417	14.411	30.111	17.615	1.00	46.11

ATOM	2878	GE1	GLU	417	-13.763	30.094	18.900	1.00	43.75
ATOM	2879	GE2	GLU	417	-15.624	30.457	17.793	1.00	43.44
ATOM	2880	C	GLU	417	-11.576	26.986	17.861	1.00	33.06
ATOM	2881	O	GLU	417	-11.974	26.778	19.008	1.00	31.36
ATOM	2882	N	TPP	418	-11.911	26.041	17.115	1.00	31.15
ATOM	2883	CA	TPP	418	-10.465	24.683	17.637	1.00	36.67
ATOM	2884	CB	TPP	418	-10.427	23.710	16.526	1.00	29.57
ATOM	2885	CG	TPP	418	-8.963	23.794	16.161	1.00	27.67
ATOM	2886	CD2	TPP	418	-7.939	22.968	16.666	1.00	27.03
ATOM	2887	CE2	TPP	418	-6.710	23.410	16.063	1.00	25.39
ATOM	2888	CE3	TPP	418	-7.456	21.901	17.575	1.00	23.44
ATOM	2889	CD1	TPP	418	-8.336	24.674	15.295	1.00	27.61
ATOM	2890	NE1	TPP	418	-7.033	24.449	15.231	1.00	23.85
ATOM	2891	CZ2	TPP	418	-5.471	22.317	16.353	1.00	24.66
ATOM	2892	CZ3	TPP	418	-6.618	21.313	17.843	1.00	24.48
ATOM	2893	CH2	TPP	418	-5.446	21.777	17.375	1.00	24.32
ATOM	2894	C	TPP	418	-9.900	24.568	18.810	1.00	29.99
ATOM	2895	O	TPP	418	-9.793	23.500	19.417	1.00	21.25
ATOM	2896	N	LEU	419	-9.258	25.661	19.111	1.00	26.75
ATOM	2897	CA	LEU	419	-8.244	25.677	20.215	1.00	26.71
ATOM	2898	CB	LEU	419	-6.851	26.171	19.305	1.00	25.59
ATOM	2899	CG	LEU	419	-6.019	25.613	18.372	1.00	26.51
ATOM	2900	CD1	LEU	419	-4.748	26.434	18.644	1.00	25.61
ATOM	2901	CD2	LEU	419	-5.659	24.568	19.468	1.00	23.90
ATOM	2902	C	LEU	419	-8.755	26.155	21.498	1.00	26.45
ATOM	2903	O	LEU	419	-8.051	26.412	22.507	1.00	23.45
ATOM	2904	N	VAL	420	-9.376	26.872	21.442	1.00	25.42
ATOM	2905	CA	VAL	420	-10.563	27.144	22.531	1.00	25.27
ATOM	2906	CB	VAL	420	-12.052	27.665	21.310	1.00	25.27
ATOM	2907	CG1	VAL	420	-12.701	28.438	23.619	1.00	25.70
ATOM	2908	CG2	VAL	420	-12.171	28.891	21.220	1.00	25.09
ATOM	2909	C	VAL	420	-10.434	26.701	23.857	1.00	24.44
ATOM	2910	O	VAL	420	-9.783	27.159	24.219	1.00	24.50
ATOM	2911	N	GLU	421	-11.041	25.520	23.542	1.00	23.25
ATOM	2912	CA	GLU	421	-11.009	24.635	24.059	1.00	23.68
ATOM	2913	CB	GLU	421	-11.889	23.501	24.654	1.00	23.62
ATOM	2914	CG	GLU	421	-11.745	22.359	25.325	1.00	20.68
ATOM	2915	CD	GLU	421	-12.603	21.191	24.528	1.00	21.39
ATOM	2916	OE1	GLU	421	-12.199	20.168	24.688	1.00	22.73
ATOM	2917	OE2	GLU	421	-13.692	21.036	26.129	1.00	26.59
ATOM	2918	C	GLU	421	-9.578	24.593	25.513	1.00	22.94
ATOM	2919	O	GLU	421	-9.329	24.496	26.711	1.00	21.48
ATOM	2920	N	THR	422	-8.680	24.079	24.602	1.00	21.91
ATOM	2921	CA	THR	422	-7.287	23.827	24.952	1.00	20.31
ATOM	2922	CB	THR	422	-6.456	23.462	23.692	1.00	21.24
ATOM	2923	CG1	THR	422	-7.015	22.383	23.103	1.00	20.43
ATOM	2924	CG2	THR	422	-4.991	23.111	24.032	1.00	23.51
ATOM	2925	C	THR	422	-6.634	25.342	25.625	1.00	21.57
ATOM	2926	O	THR	422	-5.871	24.416	26.591	1.00	20.04
ATOM	2927	N	VAL	423	-6.951	26.224	25.109	1.00	23.33
ATOM	2928	CA	VAL	423	-6.420	27.453	25.675	1.00	23.54
ATOM	2929	CB	VAL	423	-6.755	28.672	24.794	1.00	24.13
ATOM	2930	CG1	VAL	423	-6.107	29.455	25.437	1.00	24.13
ATOM	2931	CG2	VAL	423	-8.064	28.340	23.455	1.00	23.31
ATOM	2932	C	VAL	423	-6.973	27.899	27.074	1.00	24.57
ATOM	2933	O	VAL	423	-6.221	28.514	27.494	1.00	24.43
ATOM	2934	N	GLN	424	-6.286	27.354	27.231	1.00	24.53
ATOM	2935	CA	GLN	424	-4.910	27.376	28.329	1.00	25.29
ATOM	2936	CB	GLN	424	-10.479	27.387	28.138	1.00	26.08
ATOM	2937	CG	GLN	424	-11.068	26.337	27.189	1.00	29.39
ATOM	2938	CD	GLN	424	-12.604	28.343	27.319	1.00	21.02
ATOM	2939	OE1	GLN	424	-13.171	27.135	27.423	1.00	27.45
ATOM	2940	OE2	GLN	424	-13.259	26.733	27.129	1.00	23.16
ATOM	2941	C	GLN	424	-4.318	26.113	29.168	1.00	25.02
ATOM	2942	O	GLN	424	-7.998	27.125	30.477	1.00	23.19
ATOM	2943	N	MET	425	-8.216	25.349	29.164	1.00	21.57
ATOM	2944	CA	MET	425	-7.763	24.556	30.135	1.00	22.16
ATOM	2945	CB	MET	425	-8.063	23.155	29.699	1.00	22.27
ATOM	2946	CG	MET	425	-9.414	22.889	29.494	1.00	23.45
ATOM	2947	CD	MET	425	-9.518	21.173	29.383	1.00	24.90
ATOM	2948	CE	MET	425	-9.811	20.377	30.583	1.00	26.11
ATOM	2949	C	MET	425	-6.216	24.797	30.448	1.00	20.61
ATOM	2950	O	MET	425	-5.791	24.455	31.571	1.00	20.61
ATOM	2951	N	LEU	426	-5.426	25.112	29.463	1.00	20.27
ATOM	2952	CA	LEU	426	-3.999	25.115	29.695	1.00	20.83
ATOM	2953	CB	LEU	426	-3.291	25.674	29.366	1.00	18.83
ATOM	2954	CG	LEU	426	-3.787	24.441	29.536	1.00	18.15

ATOM	2955	CD1	LEU	426	-2.321	24.828	26.188	1.00	18.65
ATOM	2956	CD2	LEU	426	-1.642	23.764	28.344	1.00	18.65
ATOM	2957	C	LEU	426	-3.810	26.465	30.668	1.00	24.13
ATOM	2958	O	LEU	426	-2.952	26.411	31.550	1.00	23.47
ATOM	2959	N	THR	427	-4.651	27.498	30.505	1.00	27.30
ATOM	2960	CA	THR	427	-4.194	28.681	31.357	1.00	31.01
ATOM	2961	CB	THR	427	-5.494	29.685	30.957	1.00	31.69
ATOM	2962	OG1	THR	427	-5.486	30.101	29.605	1.00	34.44
ATOM	2963	CG2	THR	427	-5.665	30.903	31.868	1.00	34.25
ATOM	2964	C	THR	427	-4.754	29.346	32.831	1.00	31.38
ATOM	2965	O	THR	427	-5.902	29.607	33.646	1.00	31.14
ATOM	2966	N	GLU	428	-5.905	29.777	33.172	1.00	32.86
ATOM	2967	CA	GLU	428	-6.163	29.275	34.563	1.00	32.58
ATOM	2968	CB	GLU	428	-5.614	26.899	34.741	1.00	33.84
ATOM	2969	CG	GLU	428	-8.107	26.849	33.673	1.00	24.13
ATOM	2970	CD	GLU	428	-9.482	26.877	33.995	1.00	24.03
ATOM	2971	OE1	GLU	428	-10.363	26.145	34.438	1.00	30.96
ATOM	2972	OE2	GLU	428	-9.053	24.168	33.799	1.00	31.63
ATOM	2973	C	GLU	428	-5.246	26.359	35.134	1.00	32.23
ATOM	2974	O	GLU	428	-5.169	26.932	36.320	1.00	32.93
ATOM	2975	N	ARG	429	-4.314	25.816	34.296	1.00	31.30
ATOM	2976	CA	ARG	429	-5.459	24.871	34.753	1.00	27.80
ATOM	2977	CB	ARG	429	-6.772	23.854	33.844	1.00	26.65
ATOM	2978	CG	ARG	429	-4.194	23.771	34.106	1.00	25.42
ATOM	2979	CD	ARG	429	-4.972	24.632	33.064	1.00	22.31
ATOM	2980	NE	ARG	429	-6.072	20.311	33.171	1.00	20.15
ATOM	2981	HZ	ARG	429	-7.170	21.911	33.421	1.00	19.19
ATOM	2982	NH1	ARG	429	-7.996	19.805	33.157	1.00	19.16
ATOM	2983	NH2	ARG	429	-8.340	19.311	33.736	1.00	18.13
ATOM	2984	C	ARG	429	-7.870	25.432	34.321	1.00	18.76
ATOM	2985	O	ARG	429	-9.374	24.738	34.718	1.00	17.12
ATOM	2986	N	ALA	430	-11.335	16.311	34.990	1.00	19.34
ATOM	2987	CA	ALA	430	-9.860	17.464	35.109	1.00	19.49
ATOM	2988	CB	ALA	430	0.131	25.764	36.137	1.00	19.80
ATOM	2989	C	ALA	430	0.119	27.714	35.834	1.00	19.79
ATOM	2990	O	ALA	430	1.167	17.311	35.800	1.00	30.17
ATOM	2991	N	VAL	431	-9.109	17.641	35.656	1.00	19.07
ATOM	2992	CA	VAL	431	0.111	17.238	35.410	1.00	17.73
ATOM	2993	CB	VAL	431	0.779	16.433	36.411	1.00	17.78
ATOM	2994	CG1	VAL	431	1.070	16.718	36.407	1.00	17.35
ATOM	2995	CG2	VAL	431	0.648	13.174	35.137	1.00	15.40
ATOM	2996	C	VAL	431	-0.175	18.866	36.312	1.00	17.35
ATOM	2997	O	VAL	431	-1.311	18.759	36.394	1.00	17.15
ATOM	2998	N	PRO	432	0.570	19.436	36.460	1.00	16.79
ATOM	2999	CD	PRO	432	1.481	30.383	35.158	1.00	16.11
ATOM	3000	CA	PRO	432	0.133	31.115	35.617	1.00	16.19
ATOM	3001	CB	PRO	432	1.111	22.314	36.812	1.00	17.02
ATOM	3002	CG	PRO	432	2.361	11.452	36.163	1.00	19.17
ATOM	3003	C	PRO	432	0.247	30.729	36.175	1.00	14.19
ATOM	3004	C	PRO	432	1.311	19.337	37.775	1.00	14.44
ATOM	3005	N	VAL	433	-0.641	31.192	37.335	1.00	13.55
ATOM	3006	CA	VAL	433	-0.655	0.941	35.424	1.00	12.43
ATOM	3007	CB	VAL	433	-1.478	31.390	25.933	1.00	10.40
ATOM	3008	CG1	VAL	433	-1.471	31.643	31.111	1.00	11.36
ATOM	3009	CG2	VAL	433	-1.476	18.726	26.149	1.00	13.33
ATOM	3010	C	VAL	433	-0.675	21.030	24.990	1.00	14.11
ATOM	3011	O	VAL	433	-1.344	31.363	25.144	1.00	11.13
ATOM	3012	N	CYS	434	0.031	31.353	33.333	1.00	15.16
ATOM	3013	CA	CYS	434	0.116	32.841	22.829	1.00	15.10
ATOM	3014	CB	CYS	434	1.679	33.153	22.613	1.00	17.33
ATOM	3015	CG	CYS	434	1.966	41.323	21.110	1.00	13.19
ATOM	3016	C	CYS	434	-0.116	31.197	21.931	1.00	17.10
ATOM	3017	O	CYS	434	0.379	11.123	31.169	1.00	17.16
ATOM	3018	N	GLY	435	-1.146	31.641	31.019	1.00	15.59
ATOM	3019	CA	GLY	435	-2.778	31.198	19.341	1.00	17.19
ATOM	3020	C	GLY	435	-1.209	31.541	18.596	1.00	17.32
ATOM	3021	O	GLY	435	-0.137	31.711	18.619	1.00	16.82
ATOM	3022	N	HIS	436	-1.737	32.005	17.463	1.00	17.79
ATOM	3023	CA	HIS	436	-1.937	32.164	16.145	1.00	13.13
ATOM	3024	CB	HIS	436	0.117	31.158	16.173	1.00	13.09
ATOM	3025	CG	HIS	436	1.944	31.862	14.970	1.00	13.67
ATOM	3026	CD	HIS	436	0.893	31.643	13.811	1.00	13.18
ATOM	3027	NE	HIS	436	2.098	30.523	14.913	1.00	13.22
ATOM	3028	CE1	HIS	436	2.876	31.110	13.775	1.00	19.12
ATOM	3029	CE2	HIS	436	2.046	31.668	13.043	1.00	17.13
ATOM	3030	C	HIS	436	-2.009	31.950	15.049	1.00	15.54
ATOM	3031	O	HIS	436	-2.556	31.817	14.798	1.00	17.47

ATOM	3032	N	LEU	437	-2.442	33.052	14.428	1.00	30.59
ATOM	3033	CA	LEU	437	-1.384	32.999	13.314	1.00	31.59
ATOM	3034	CB	LEU	437	-4.632	32.823	13.643	1.00	31.44
ATOM	3035	CG	LEU	437	-1.519	32.332	14.790	1.00	30.60
ATOM	3036	CD1	LEU	437	-0.611	34.351	11.065	1.00	30.46
ATOM	3037	CD2	LEU	437	-0.104	31.978	14.429	1.00	30.85
ATOM	3038	N	LEU	437	-2.401	31.507	12.015	1.00	32.51
ATOM	3039	H	LEU	437	-1.778	34.304	12.024	1.00	31.44
ATOM	3040	H	GLY	438	-3.779	31.154	10.898	1.00	34.06
ATOM	3041	CA	GLY	438	-2.005	33.187	9.606	1.00	35.62
ATOM	3042	C	GLY	438	-2.183	31.452	8.835	1.00	37.37
ATOM	3043	H	GLY	438	-2.396	31.400	9.441	1.00	37.17
ATOM	3044	H	LEU	439	-2.055	31.659	8.356	1.00	37.61
ATOM	3045	CA	LEU	439	-0.355	31.642	7.601	1.00	37.93
ATOM	3046	CB	LEU	439	0.823	32.310	6.650	1.00	40.55
ATOM	3047	CG	LEU	439	1.104	31.810	5.414	1.00	44.13
ATOM	3048	CD1	LEU	439	1.064	31.410	4.501	1.00	47.93
ATOM	3049	CD2	LEU	439	1.839	31.088	5.133	1.00	47.74
ATOM	3050	C	LEU	439	0.833	33.719	8.437	1.00	44.30
ATOM	3051	C	LEU	439	1.119	33.915	8.902	1.00	46.50
ATOM	3052	N	THR	440	-0.500	31.615	9.310	1.00	39.46
ATOM	3053	CA	THR	440	0.067	28.710	9.447	1.00	38.93
ATOM	3054	CB	THR	440	-0.311	27.967	10.117	1.00	39.18
ATOM	3055	CG1	THR	440	-1.075	27.334	9.437	1.00	38.96
ATOM	3056	CG2	THR	440	-1.810	28.938	11.012	1.00	37.57
ATOM	3057	C	THR	440	1.108	28.617	9.341	1.00	38.59
ATOM	3058	C	THR	440	0.507	28.245	8.132	1.00	38.96
ATOM	3059	N	PRO	441	2.114	28.741	8.110	1.00	37.45
ATOM	3060	C	PRO	441	3.106	28.776	10.142	1.00	37.19
ATOM	3061	CA	PRO	441	3.108	28.641	8.115	1.00	36.11
ATOM	3062	CB	PRO	441	4.445	28.145	11.132	1.00	39.17
ATOM	3063	C	PRO	441	3.403	28.140	8.130	1.00	34.87
ATOM	3064	C	PRO	441	3.133	28.008	11.104	1.00	33.70
ATOM	3065	H	GLN	442	2.107	28.008	11.106	1.00	33.33
ATOM	3066	CA	GLN	442	2.413	28.008	11.106	1.00	32.20
ATOM	3067	CB	GLN	442	1.091	28.008	11.106	1.00	31.14
ATOM	3068	CG	GLN	442	3.112	28.008	11.106	1.00	30.08
ATOM	3069	C	GLN	442	2.411	28.008	11.106	1.00	29.02
ATOM	3070	CD1	GLN	442	1.879	28.008	11.106	1.00	28.95
ATOM	3071	CD2	GLN	442	3.116	28.008	11.106	1.00	28.88
ATOM	3072	C	GLN	442	1.876	28.008	11.106	1.00	28.81
ATOM	3073	H	GLN	442	1.433	28.008	11.106	1.00	28.74
ATOM	3074	H	GLN	442	0.510	28.008	11.106	1.00	28.67
ATOM	3075	N	SER	443	-0.546	28.429	8.903	1.00	31.13
ATOM	3076	CA	SER	443	-1.811	24.384	4.394	1.00	31.82
ATOM	3077	CB	SER	443	-2.347	23.709	4.450	1.00	31.76
ATOM	3078	CG	SER	443	-0.111	23.711	6.616	1.00	31.70
ATOM	3079	C	SER	443	-1.075	23.624	5.151	1.00	31.68
ATOM	3080	N	VAL	444	1.109	23.615	6.623	1.00	31.61
ATOM	3081	CA	VAL	444	1.530	24.101	4.979	1.00	31.58
ATOM	3082	CB	VAL	444	3.145	24.101	4.979	1.00	31.51
ATOM	3083	CG	VAL	444	3.670	22.100	5.397	1.00	31.45
ATOM	3084	C	VAL	444	3.616	24.430	3.504	1.00	31.38
ATOM	3085	H	VAL	444	1.039	23.101	3.852	1.00	31.31
ATOM	3086	H	ASN	445	0.718	23.446	2.819	1.00	31.25
ATOM	3087	CA	ASN	445	0.915	21.842	4.361	1.00	31.18
ATOM	3088	CB	ASN	445	0.412	23.844	3.473	1.00	31.11
ATOM	3089	CG	ASN	445	0.666	13.445	4.039	1.00	31.04
ATOM	3090	CD1	ASN	445	2.141	13.118	4.145	1.00	31.00
ATOM	3091	CD2	ASN	445	2.863	19.009	3.457	1.00	30.93
ATOM	3092	C	ASN	445	2.563	19.113	5.148	1.00	30.86
ATOM	3093	C	ASN	445	-1.075	20.841	3.403	1.00	30.79
ATOM	3094	N	ILE	446	-1.577	20.841	2.455	1.00	30.72
ATOM	3095	CA	ILE	446	-1.757	21.841	4.138	1.00	30.65
ATOM	3096	CB	ILE	446	-3.195	21.841	3.133	1.00	30.58
ATOM	3097	CG1	ILE	446	-3.835	21.841	5.145	1.00	30.51
ATOM	3098	CG2	ILE	446	-5.261	21.841	5.105	1.00	30.44
ATOM	3099	C	ILE	446	-3.841	21.841	6.151	1.00	30.37
ATOM	3100	H	ILE	446	-4.677	13.446	5.105	1.00	30.30
ATOM	3101	C	ILE	446	-3.411	23.107	2.452	1.00	30.23
ATOM	3102	H	PRE	447	-4.259	22.809	2.350	1.00	30.16
ATOM	3103	N	PRE	447	-2.657	24.092	3.112	1.00	30.09
ATOM	3104	CA	PRE	447	-2.765	25.245	2.349	1.00	29.99
ATOM	3105	CB	PRE	447	-2.040	26.452	2.452	1.00	29.92
ATOM	3106	CG	PRE	447	-2.516	26.826	4.208	1.00	29.85
ATOM	3107	CD1	PRE	447	-3.903	27.109	4.467	1.00	29.78

ATOM	3109	CD2	PHE	447	-1.617	26.921	5.282	1.00	41.49
ATOM	3110	CE1	PHE	447	-4.299	27.474	5.758	1.00	41.71
ATOM	3111	CE2	PHE	447	-2.040	27.304	6.557	1.00	41.93
ATOM	3112	CZ	PHE	447	-3.358	27.577	6.785	1.00	41.96
ATOM	3113	C	PHE	447	-2.110	24.948	0.873	1.00	42.08
ATOM	3114	O	PHE	447	-2.558	25.179	-0.111	1.00	42.68
ATOM	3115	N	GLY	448	-1.111	23.987	0.831	1.00	43.71
ATOM	3116	CA	GLY	448	-0.688	23.822	-0.418	1.00	45.90
ATOM	3117	C	GLY	448	0.536	24.528	-0.695	1.00	47.96
ATOM	3118	O	GLY	448	0.967	24.729	-1.846	1.00	48.71
ATOM	3119	N	GLY	449	1.110	25.076	0.371	1.00	49.19
ATOM	3120	CA	GLY	449	2.185	25.909	0.239	1.00	50.57
ATOM	3121	C	GLY	449	2.149	27.142	1.191	1.00	51.69
ATOM	3122	O	GLY	449	1.163	27.148	2.647	1.00	51.79
ATOM	3123	N	TYR	450	3.100	28.137	1.048	1.00	52.60
ATOM	3124	CA	TYR	450	2.936	29.311	1.921	1.00	53.60
ATOM	3125	CR	TYR	450	4.701	29.834	1.397	1.00	53.86
ATOM	3126	CG	TYR	450	5.135	28.137	3.095	1.00	55.77
ATOM	3127	CD1	TYR	450	5.739	27.339	1.331	1.00	55.77
ATOM	3128	CE1	TYR	450	6.111	26.490	1.996	1.00	56.63
ATOM	3129	CE2	TYR	450	5.677	18.310	4.341	1.00	55.80
ATOM	3130	CE3	TYR	450	5.871	17.134	5.113	1.00	56.70
ATOM	3131	CD	TYR	450	6.114	16.192	4.378	1.00	56.70
ATOM	3132	OH	TYR	450	6.908	15.119	5.008	1.00	56.70
ATOM	3133	C	TYR	450	2.136	10.492	1.178	1.00	58.14
ATOM	3134	O	TYR	450	3.036	11.165	0.311	1.00	58.48
ATOM	3135	N	LYS	451	1.011	10.015	1.111	1.00	58.14
ATOM	3136	CA	LYS	451	0.131	11.195	0.619	1.00	58.14
ATOM	3137	CB	LYS	451	-0.871	11.099	-0.189	1.00	58.14
ATOM	3138	C	LYS	451	-0.310	19.987	-1.001	1.00	57.71
ATOM	3139	CD	LYS	451	-1.811	19.138	-1.801	1.00	58.81
ATOM	3140	CE	LYS	451	-1.112	27.340	-4.013	1.00	58.14
ATOM	3141	NE2	LYS	451	-2.336	27.115	-4.071	1.00	58.14
ATOM	3142	C	LYS	451	-0.196	12.646	1.714	1.00	58.14
ATOM	3143	O	LYS	451	-0.332	12.116	1.849	1.00	58.14
ATOM	3144	N	VAL	452	-0.111	13.819	1.135	1.00	58.14
ATOM	3145	CA	VAL	452	-1.039	14.006	1.045	1.00	58.14
ATOM	3146	C	VAL	452	-0.845	16.137	1.607	1.00	58.14
ATOM	3147	CG1	VAL	452	-1.134	17.112	1.896	1.00	58.14
ATOM	3148	CG2	VAL	452	0.144	16.313	1.747	1.00	58.14
ATOM	3149	C	VAL	452	-0.115	14.191	1.114	1.00	58.14
ATOM	3150	O	VAL	452	-3.133	14.131	1.809	1.00	58.14
ATOM	3151	N	GLN	453	-0.830	14.114	1.771	1.00	58.14
ATOM	3152	CA	GLN	453	-4.158	14.056	4.166	1.00	58.14
ATOM	3153	CB	GLN	453	-4.330	13.344	5.354	1.00	58.14
ATOM	3154	CG	GLN	453	-4.104	11.374	4.906	1.00	58.14
ATOM	3155	CD	GLN	453	-5.111	11.138	4.268	1.00	58.14
ATOM	3156	OE1	GLN	453	-1.334	11.135	4.854	1.00	58.14
ATOM	3157	NE2	GLN	453	-3.111	10.014	5.048	1.00	58.14
ATOM	3158	C	SLN	454	-4.363	15.117	4.585	1.00	58.14
ATOM	3159	O	SLN	454	-4.737	16.135	4.704	1.00	58.14
ATOM	3160	N	SLY	454	-6.131	15.144	4.746	1.00	58.14
ATOM	3161	CA	SLY	454	-7.965	16.413	5.107	1.00	58.14
ATOM	3162	C	SLY	454	-7.927	17.105	5.240	1.00	58.14
ATOM	3163	O	SLY	454	-8.331	18.110	4.115	1.00	58.14
ATOM	3164	N	ARG	455	-7.157	16.111	5.731	1.00	58.14
ATOM	3165	CA	ARG	455	-7.159	17.111	5.533	1.00	61.00
ATOM	3166	CB	ARG	455	-7.981	16.111	6.283	1.00	61.00
ATOM	3167	CG	ARG	455	-5.993	17.100	6.110	1.00	61.00
ATOM	3168	CD	ARG	455	-5.111	18.111	5.100	1.00	61.00
ATOM	3169	NE	ARG	455	-4.111	18.109	-1.232	1.00	61.00
ATOM	3170	CH	ARG	455	-3.111	18.111	-0.911	1.00	61.00
ATOM	3171	NH1	ARG	455	-3.111	19.111	-1.711	1.00	61.00
ATOM	3172	NH2	ARG	455	-1.111	18.111	-0.711	1.00	61.00
ATOM	3173	C	ARG	455	-9.999	19.111	1.387	1.00	61.00
ATOM	3174	O	ARG	455	-9.111	18.111	1.214	1.00	61.00
ATOM	3175	N	GLY	456	-9.999	18.111	1.432	1.00	61.00
ATOM	3176	CA	GLY	456	-11.111	18.111	1.379	1.00	64.13
ATOM	3177	C	GLY	456	-12.111	18.111	1.679	1.00	65.08
ATOM	3178	O	GLY	456	-11.111	18.111	1.708	1.00	65.11
ATOM	3179	N	ASP	457	-13.333	19.111	2.606	1.00	65.49
ATOM	3180	CA	ASP	457	-14.111	19.111	3.283	1.00	65.79
ATOM	3181	CB	ASP	457	-15.457	19.111	3.365	1.00	66.87
ATOM	3182	CG	ASP	457	-15.109	11.111	2.565	1.00	67.41
ATOM	3183	OD1	ASP	457	-14.541	11.111	3.095	1.00	67.49
ATOM	3184	OD2	ASP	457	-15.000	11.111	1.467	1.00	68.14
ATOM	3185	C	ASN	457	-14.474	19.111	4.016	1.00	65.51

ATOM	3186	O	ASP	457	-14.485	38.298	5.846	1.00	65.44
ATOM	3187	N	GLU	458	-14.782	37.035	3.936	1.00	65.17
ATOM	3188	CA	GLU	458	-15.122	35.808	4.611	1.00	64.76
ATOM	3189	CB	GLU	458	-15.460	34.526	3.583	1.00	65.72
ATOM	3190	CG	GLU	458	-15.856	33.392	3.194	1.00	67.79
ATOM	3191	CD	GLU	458	-16.221	32.360	3.149	1.00	68.91
ATOM	3192	OE1	GLU	458	-17.201	32.635	2.334	1.00	69.70
ATOM	3193	OE2	GLU	458	-15.568	31.135	3.083	1.00	69.17
ATOM	3194	C	GLU	458	-13.956	35.348	3.480	1.00	63.98
ATOM	3195	O	GLU	458	-14.111	35.121	6.671	1.00	62.71
ATOM	3196	N	ALA	459	-12.781	35.113	3.866	1.00	62.74
ATOM	3197	CA	ALA	459	-11.584	34.587	3.581	1.00	61.25
ATOM	3198	CB	ALA	459	-10.462	34.147	4.594	1.00	61.27
ATOM	3199	C	ALA	459	-11.158	35.863	6.575	1.00	60.06
ATOM	3200	O	ALA	459	-10.636	35.370	3.645	1.00	59.75
ATOM	3201	N	GLY	460	-11.392	37.119	6.211	1.00	58.46
ATOM	3202	CA	GLY	460	-11.023	38.118	7.083	1.00	55.33
ATOM	3203	C	GLY	460	-11.803	38.247	7.184	1.00	56.78
ATOM	3204	O	GLY	460	-11.229	38.175	3.463	1.00	56.97
ATOM	3205	N	ASP	461	-13.177	38.118	3.180	1.00	53.11
ATOM	3206	CA	ASP	461	-12.363	38.101	3.481	1.00	54.77
ATOM	3207	CB	ASP	461	-12.451	38.111	3.189	1.00	53.11
ATOM	3208	CG	ASP	461	-12.783	39.312	3.186	1.00	56.18
ATOM	3209	OD1	ASP	461	-13.443	40.143	3.181	1.00	56.46
ATOM	3210	OD2	ASP	461	-12.389	39.342	3.181	1.00	56.49
ATOM	3211	C	ASP	461	-13.713	36.845	12.185	1.00	50.34
ATOM	3212	O	ASP	461	-12.291	36.787	11.484	1.00	50.31
ATOM	3213	N	SER	462	-13.293	35.776	3.614	1.00	51.89
ATOM	3214	CA	SER	462	-12.014	34.780	12.168	1.00	52.75
ATOM	3215	CB	SER	462	-12.908	33.847	3.188	1.00	51.73
ATOM	3216	CG	SER	462	-12.684	32.009	3.186	1.00	51.87
ATOM	3217	CD	SER	462	-13.719	31.665	13.865	1.00	52.18
ATOM	3218	OE1	SER	462	-14.950	31.775	12.164	1.00	52.86
ATOM	3219	NE2	SER	462	-13.275	31.188	13.083	1.00	52.89
ATOM	3220	C	SER	462	-11.767	34.387	11.188	1.00	52.88
ATOM	3221	O	SER	462	-11.647	33.888	12.111	1.00	52.16
ATOM	3222	N	LEU	463	-10.819	35.847	12.168	1.00	51.13
ATOM	3223	CA	LEU	463	-9.587	35.712	13.419	1.00	50.11
ATOM	3224	CB	LEU	463	-8.478	36.316	12.167	1.00	51.43
ATOM	3225	CG	LEU	463	-8.036	35.187	3.183	1.00	52.82
ATOM	3226	CD1	LEU	463	-6.962	35.349	3.182	1.00	51.49
ATOM	3227	CD2	LEU	463	-7.505	33.881	3.182	1.00	51.11
ATOM	3228	C	LEU	463	-5.769	36.480	13.663	1.00	49.19
ATOM	3229	O	LEU	463	-9.162	36.145	13.678	1.00	49.00
ATOM	3230	N	LEU	464	-10.622	37.343	13.414	1.00	48.83
ATOM	3231	CA	LEU	464	-10.907	38.339	13.488	1.00	48.81
ATOM	3232	CB	LEU	464	-11.724	39.813	13.989	1.00	48.82
ATOM	3233	CG	LEU	464	-11.609	40.167	13.668	1.00	50.86
ATOM	3234	CD1	LEU	464	-12.492	41.106	13.980	1.00	50.81
ATOM	3235	CD2	LEU	464	-12.017	40.187	13.116	1.00	49.80
ATOM	3236	C	LEU	464	-11.697	37.125	14.382	1.00	46.83
ATOM	3237	O	LEU	464	-11.471	37.180	15.772	1.00	46.81
ATOM	3238	N	SER	465	-12.626	36.667	14.165	1.00	45.83
ATOM	3239	CA	SER	465	-13.452	36.134	13.095	1.00	44.66
ATOM	3240	CB	SER	465	-14.506	35.235	14.385	1.00	45.80
ATOM	3241	CG	SER	465	-15.284	34.381	15.115	1.00	45.86
ATOM	3242	C	SER	465	-12.577	35.116	15.800	1.00	43.82
ATOM	3243	O	SER	465	-12.703	35.072	17.119	1.00	43.80
ATOM	3244	N	ASP	466	-11.700	34.135	15.135	1.00	43.72
ATOM	3245	CA	ASP	466	-10.786	33.303	15.307	1.00	40.59
ATOM	3246	CB	ASP	466	-9.941	32.712	14.817	1.00	40.66
ATOM	3247	CG	ASP	466	-10.769	31.883	14.093	1.00	41.24
ATOM	3248	CD1	ASP	466	-11.621	31.043	14.674	1.00	41.44
ATOM	3249	CD2	ASP	466	-10.418	31.156	12.902	1.00	41.17
ATOM	3250	C	ASP	466	-8.885	34.265	16.817	1.00	39.59
ATOM	3251	O	ASP	466	-9.589	33.780	17.930	1.00	37.83
ATOM	3252	N	ALA	467	-9.471	35.160	16.408	1.00	37.34
ATOM	3253	CA	ALA	467	-8.586	34.292	17.216	1.00	36.59
ATOM	3254	CB	ALA	467	-8.132	32.568	16.442	1.00	35.34
ATOM	3255	C	ALA	467	-6.114	35.683	18.511	1.00	38.15
ATOM	3256	O	ALA	467	-6.177	35.477	12.616	1.00	38.15
ATOM	3257	N	LEU	468	-10.586	37.116	18.450	1.00	36.18
ATOM	3258	CA	LEU	468	-11.283	37.348	19.643	1.00	36.13
ATOM	3259	CB	LEU	468	-11.610	38.119	19.214	1.00	38.15
ATOM	3260	CG	LEU	468	-12.551	38.555	18.732	1.00	38.68
ATOM	3261	CD1	LEU	468	-13.881	38.136	18.082	1.00	40.81
ATOM	3262	CD2	LEU	468	-13.138	39.081	18.884	1.00	38.11

ATOM	3263	C	LEU	468	-11.559	36.704	20.452	1.00	35.67
ATOM	3264	O	LEU	468	-11.565	36.732	21.583	1.00	36.76
ATOM	3265	N	ALA	468	-11.748	35.099	19.747	1.00	34.59
ATOM	3266	CA	ALA	468	-12.077	33.810	20.387	1.00	34.17
ATOM	3267	CB	ALA	468	-12.870	32.768	19.735	1.00	33.45
ATOM	3268	C	ALA	468	-10.817	33.570	21.169	1.00	34.41
ATOM	3269	O	ALA	468	-11.181	33.002	22.357	1.00	35.87
ATOM	3270	N	LEU	470	-8.771	33.511	20.685	1.00	31.59
ATOM	3271	CA	LEU	470	-8.534	32.911	21.420	1.00	34.13
ATOM	3272	CB	LEU	470	-7.797	31.981	20.716	1.00	33.35
ATOM	3273	CC	LEU	470	-7.171	32.630	19.711	1.00	32.57
ATOM	3274	CD1	LEU	470	-6.006	32.281	18.490	1.00	31.63
ATOM	3275	CD2	LEU	470	-7.139	30.589	19.803	1.00	32.13
ATOM	3276	C	LEU	470	-8.347	32.810	22.021	1.00	34.20
ATOM	3277	O	LEU	470	-8.061	33.347	23.731	1.00	34.75
ATOM	3278	N	GLU	471	-8.716	29.119	22.417	1.00	33.48
ATOM	3279	CA	GLU	471	-8.872	26.081	23.499	1.00	35.79
ATOM	3280	CB	GLU	471	-8.534	27.306	22.908	1.00	34.35
ATOM	3281	CG	GLU	471	-8.615	28.313	24.086	1.00	35.68
ATOM	3282	CH	GLU	471	-8.661	29.290	25.765	1.00	36.33
ATOM	3283	CH1	GLU	471	-10.008	40.013	22.081	1.00	36.43
ATOM	3284	CH2	GLU	471	-10.005	40.883	21.813	1.00	35.43
ATOM	3285	I	GLU	471	-8.736	29.290	24.613	1.00	34.41
ATOM	3286	I	GLU	471	-8.732	33.373	25.793	1.00	35.79
ATOM	3287	N	ALA	472	-10.001	35.334	24.132	1.00	34.45
ATOM	3288	CA	ALA	472	-11.072	35.131	23.109	1.00	33.67
ATOM	3289	CB	ALA	472	-11.149	35.139	24.306	1.00	33.93
ATOM	3290	C	ALA	472	-11.108	34.115	25.001	1.00	33.33
ATOM	3291	O	ALA	472	-11.109	33.100	25.165	1.00	33.64
ATOM	3292	N	ALA	472	-10.102	33.100	25.051	1.00	33.33
ATOM	3293	CA	ALA	472	-11.107	31.100	25.848	1.00	33.14
ATOM	3294	CB	ALA	472	-11.102	30.100	24.841	1.00	32.34
ATOM	3295	I	ALA	472	-10.102	31.100	26.051	1.00	33.68
ATOM	3296	I	ALA	472	-11.103	31.100	27.831	1.00	33.10
ATOM	3297	N	GLY	473	-11.101	31.100	26.199	1.00	33.17
ATOM	3298	CA	GLY	473	-11.102	31.101	27.074	1.00	33.43
ATOM	3299	I	GLY	473	-11.101	31.101	27.181	1.00	33.77
ATOM	3300	O	GLY	473	-11.107	33.100	27.016	1.00	33.18
ATOM	3301	N	ALA	473	-11.105	33.100	26.856	1.00	33.78
ATOM	3302	CA	ALA	473	-11.106	33.100	25.189	1.00	33.82
ATOM	3303	CB	ALA	473	-11.100	33.100	25.679	1.00	33.72
ATOM	3304	I	ALA	473	-11.100	33.100	25.608	1.00	33.54
ATOM	3305	O	ALA	473	-11.106	33.100	25.166	1.00	33.36
ATOM	3306	N	GLN	475	-11.947	31.104	26.124	1.00	33.30
ATOM	3307	CA	GLN	475	-11.100	30.100	26.573	1.00	41.42
ATOM	3308	CB	GLN	475	-11.144	30.100	27.196	1.00	42.13
ATOM	3309	CG	GLN	475	-11.105	30.100	28.340	1.00	44.63
ATOM	3310	CD	GLN	475	-11.108	30.100	30.234	1.00	46.68
ATOM	3311	OE1	GLN	475	-11.175	30.100	30.780	1.00	48.19
ATOM	3312	NE2	GLN	475	-10.100	34.100	30.701	1.00	47.14
ATOM	3313	C	GLN	475	-11.561	33.100	25.468	1.00	41.19
ATOM	3314	O	GLN	475	-11.171	33.450	25.580	1.00	40.69
ATOM	3315	N	LEU	477	-11.320	36.150	24.379	1.00	40.91
ATOM	3316	CA	LEU	477	-9.565	37.150	23.247	1.00	39.13
ATOM	3317	CB	LEU	477	-9.315	36.150	23.395	1.00	41.45
ATOM	3318	CG	LEU	477	-11.765	35.150	24.121	1.00	41.89
ATOM	3319	CD1	LEU	477	-11.142	37.130	24.430	1.00	42.33
ATOM	3320	CD2	LEU	477	-11.127	38.130	23.200	1.00	43.54
ATOM	3321	C	LEU	477	-11.035	36.140	21.900	1.00	38.33
ATOM	3322	O	LEU	477	-11.713	37.130	21.363	1.00	38.00
ATOM	3323	N	LEU	477	-0.820	37.130	20.930	1.00	37.63
ATOM	3324	CA	LEU	477	-1.253	36.140	19.530	1.00	36.80
ATOM	3325	CB	LEU	477	-0.600	37.130	19.130	1.00	36.00
ATOM	3326	CG	LEU	477	-3.160	36.140	19.740	1.00	40.00
ATOM	3327	CH1	LEU	477	-3.361	37.130	18.510	1.00	39.10
ATOM	3328	CH2	LEU	477	-4.360	37.130	17.460	1.00	40.00
ATOM	3329	C	LEU	477	-0.227	37.000	18.460	1.00	38.00
ATOM	3330	O	LEU	477	-0.424	37.147	18.530	1.00	39.77
ATOM	3331	N	VAL	479	-0.684	36.120	17.433	1.00	36.00
ATOM	3332	CA	VAL	479	-0.862	35.120	16.432	1.00	37.80
ATOM	3333	CB	VAL	479	-2.033	35.130	16.476	1.00	37.71
ATOM	3334	CG1	VAL	479	-2.957	35.130	15.264	1.00	37.50
ATOM	3335	CG2	VAL	479	-2.808	35.137	17.771	1.00	47.34
ATOM	3336	C	VAL	479	-0.174	36.200	15.845	1.00	39.00
ATOM	3337	O	VAL	479	-0.453	35.170	14.760	1.00	37.50
ATOM	3338	N	LEU	480	-0.282	37.234	14.231	1.00	38.00
ATOM	3339	CA	LEU	480	-0.107	37.234	13.800	1.00	38.00

ATOM	3340	CB	LEU	480	-1.029	38.574	12.622	1.00	39.15
ATOM	3341	CG	LEU	480	-2.367	38.841	13.416	1.00	39.59
ATOM	3342	CD1	LEU	480	-2.851	40.220	13.071	1.00	39.86
ATOM	3343	CD2	LEU	480	-3.340	37.766	12.098	1.00	40.86
ATOM	3344	C	LEU	480	0.816	37.067	12.884	1.00	38.22
ATOM	3345	O	LEU	480	1.818	37.776	11.935	1.00	37.07
ATOM	3346	N	GLU	481	0.648	36.115	10.951	1.00	38.45
ATOM	3347	CA	GLU	481	1.670	37.846	9.965	1.00	38.65
ATOM	3348	CB	GLU	481	2.287	34.469	10.203	1.00	38.33
ATOM	3349	CG	GLU	481	3.587	34.243	9.454	1.00	39.75
ATOM	3350	CD	GLU	481	4.111	33.831	9.611	1.00	38.78
ATOM	3351	OE1	GLU	481	4.045	33.300	10.741	1.00	38.25
ATOM	3352	OE2	GLU	481	4.595	33.266	8.605	1.00	39.84
ATOM	3353	C	GLU	481	1.121	33.914	8.546	1.00	38.06
ATOM	3354	O	GLU	481	0.152	33.234	8.209	1.00	37.10
ATOM	3355	N	CYS	482	1.768	34.732	7.919	1.00	41.00
ATOM	3356	CA	CYS	482	1.384	34.918	6.323	1.00	42.86
ATOM	3357	CB	CYS	482	1.841	33.721	5.490	1.00	42.95
ATOM	3358	CG	CYS	482	3.640	33.523	5.444	1.00	44.46
ATOM	3359	C	CYS	482	-0.110	32.135	4.147	1.00	43.43
ATOM	3360	O	CYS	482	-0.819	32.267	5.663	1.00	44.41
ATOM	3361	N	VAL	483	-0.584	32.321	4.503	1.00	43.15
ATOM	3362	CA	VAL	483	-1.840	32.640	6.411	1.00	42.42
ATOM	3363	CB	VAL	483	-2.680	32.573	7.781	1.00	42.80
ATOM	3364	CG1	VAL	483	-2.139	32.685	8.770	1.00	42.54
ATOM	3365	CG2	VAL	483	-4.182	33.643	7.807	1.00	46.49
ATOM	3366	C	VAL	483	-2.023	42.143	7.911	1.00	48.82
ATOM	3367	O	VAL	483	-1.243	42.987	8.303	1.00	48.32
ATOM	3368	N	PRO	484	-3.111	42.443	7.041	1.00	49.61
ATOM	3369	CA	PRO	484	-4.139	42.629	3.577	1.00	50.76
ATOM	3370	CB	PRO	484	-3.143	41.832	3.541	1.00	48.54
ATOM	3371	CG	PRO	484	-4.439	41.797	3.758	1.00	49.60
ATOM	3372	CD	PRO	484	-5.119	42.673	3.131	1.00	50.37
ATOM	3373	C	PRO	484	-3.138	42.850	3.669	1.00	49.40
ATOM	3374	O	PRO	484	-3.512	42.701	6.643	1.00	48.17
ATOM	3375	N	VAL	485	-2.311	42.884	3.103	1.00	49.76
ATOM	3376	CA	VAL	485	-2.134	41.941	6.507	1.00	49.53
ATOM	3377	CB	VAL	485	-1.456	42.152	5.811	1.00	48.81
ATOM	3378	CG1	VAL	485	-1.269	42.171	7.403	1.00	48.88
ATOM	3379	CG2	VAL	485	-0.134	42.701	5.273	1.00	49.01
ATOM	3380	C	VAL	485	-3.530	42.415	7.034	1.00	50.17
ATOM	3381	O	VAL	485	-3.732	42.505	8.243	1.00	48.86
ATOM	3382	N	GLU	486	-4.454	42.715	6.124	1.00	50.65
ATOM	3383	CA	GLU	486	-5.784	42.183	6.104	1.00	50.38
ATOM	3384	CB	GLU	486	-6.644	42.421	5.254	1.00	51.37
ATOM	3385	CG	GLU	486	-6.277	41.568	6.041	1.00	52.69
ATOM	3386	CD	GLU	486	-5.076	42.115	3.277	1.00	53.84
ATOM	3387	OE1	GLU	486	-6.120	42.298	2.872	1.00	54.68
ATOM	3388	OE2	GLU	486	-4.096	42.365	3.074	1.00	52.54
ATOM	3389	C	GLU	486	-6.503	42.228	7.456	1.00	50.07
ATOM	3390	O	GLU	486	-7.304	42.656	8.292	1.00	48.95
ATOM	3391	N	LEU	487	-6.215	42.936	7.330	1.00	49.08
ATOM	3392	CA	LEU	487	-6.837	41.932	8.187	1.00	50.29
ATOM	3393	CB	LEU	487	-6.709	41.547	7.553	1.00	51.28
ATOM	3394	CG	LEU	487	-7.813	42.529	7.371	1.00	51.57
ATOM	3395	CD1	LEU	487	-7.551	39.250	7.099	1.00	51.28
ATOM	3396	CD2	LEU	487	-7.875	41.250	9.161	1.00	53.45
ATOM	3397	C	LEU	487	-6.158	41.940	9.556	1.00	49.77
ATOM	3398	O	LEU	487	-8.811	41.801	10.591	1.00	48.49
ATOM	3399	N	ALA	488	-4.841	43.127	9.549	1.00	49.27
ATOM	3400	CA	ALA	488	-4.071	43.177	10.784	1.00	48.39
ATOM	3401	CB	ALA	488	-1.583	43.275	10.469	1.00	43.72
ATOM	3402	C	ALA	488	-4.513	41.281	11.607	1.00	48.13
ATOM	3403	O	ALA	488	-4.465	41.353	12.835	1.00	48.34
ATOM	3404	N	LYS	489	-4.946	42.432	10.922	1.00	43.37
ATOM	3405	CA	LYS	489	-3.389	42.644	11.533	1.00	48.70
ATOM	3406	CB	LYS	489	-5.738	42.721	10.584	1.00	48.47
ATOM	3407	CG	LYS	489	-4.611	42.013	9.591	1.00	51.46
ATOM	3408	CD	LYS	489	-5.070	42.949	8.495	1.00	53.59
ATOM	3409	OE	LYS	489	-3.787	42.127	7.431	1.00	54.53
ATOM	3410	NE	LYS	489	-4.469	42.853	6.292	1.00	54.51
ATOM	3411	C	LYS	489	-6.827	42.357	12.450	1.00	43.17
ATOM	3412	O	LYS	489	-6.667	42.723	13.623	1.00	42.72
ATOM	3413	N	ARG	490	-7.627	45.784	11.863	1.00	48.64
ATOM	3414	CA	ARG	490	-8.843	45.377	12.605	1.00	48.86
ATOM	3415	CB	ARG	490	-6.846	44.627	11.725	1.00	48.19
ATOM	3416	CG	ARG	490	-1.143	43.921	12.784	1.00	50.73

ATOM	3417	CD	ARG	490	-12.089	44.836	10.629	1.00	51.13
ATOM	3418	NE	ARG	490	-11.966	43.619	8.837	1.00	51.85
ATOM	3419	C2	ARG	490	-12.953	41.759	6.616	1.00	51.46
ATOM	3420	NH1	ARG	490	-14.157	41.977	10.141	1.00	51.44
ATOM	3421	NH2	ARG	490	-12.755	41.690	8.871	1.00	50.98
ATOM	3422	C	ARG	490	-8.525	44.532	11.871	1.00	48.05
ATOM	3423	O	ARG	490	-8.860	44.904	11.936	1.00	48.14
ATOM	3424	N	ILE	491	-7.874	43.394	11.602	1.00	47.40
ATOM	3425	CA	ILE	491	-7.509	42.477	11.679	1.00	46.10
ATOM	3426	CR	ILE	491	-6.621	41.323	14.150	1.00	45.42
ATOM	3427	CG2	ILE	491	-6.109	40.440	14.304	1.00	45.08
ATOM	3428	CG1	ILE	491	-7.40	40.494	11.126	1.00	45.31
ATOM	3429	CD1	ILE	491	-6.607	39.364	11.502	1.00	45.10
ATOM	3430	C	ILE	491	-6.773	42.188	11.811	1.00	45.67
ATOM	3431	O	ILE	491	-7.111	43.012	11.981	1.00	45.67
ATOM	3432	N	THR	492	-5.773	42.984	11.430	1.00	45.88
ATOM	3433	CA	THR	492	-4.993	44.715	12.413	1.00	45.17
ATOM	3434	CR	THR	492	-3.798	44.411	11.814	1.00	44.78
ATOM	3435	CG1	THR	492	-3.644	44.481	11.630	1.00	44.42
ATOM	3436	CG2	THR	492	-2.881	40.011	14.031	1.00	43.81
ATOM	3437	C	THR	492	-5.843	43.733	11.111	1.00	43.83
ATOM	3438	O	THR	492	-5.711	41.933	11.163	1.00	47.12
ATOM	3439	N	GLU	493	-6.693	46.414	14.337	1.00	45.11
ATOM	3440	CA	GLU	493	-7.133	47.347	14.934	1.00	48.40
ATOM	3441	CB	GLU	493	-7.893	48.517	11.860	1.00	48.93
ATOM	3442	CG	GLU	493	-6.711	49.314	11.407	1.00	51.63
ATOM	3443	CD	GLU	493	-7.083	50.312	14.347	1.00	54.31
ATOM	3444	OE1	GLU	493	-7.483	49.981	11.118	1.00	51.73
ATOM	3445	OE2	GLU	493	-6.993	51.511	11.631	1.00	53.09
ATOM	3446	O	GLU	493	-8.866	46.909	11.433	1.00	47.11
ATOM	3447	C	GLU	493	-9.803	47.601	11.773	1.00	48.13
ATOM	3448	CA	ALA	494	-8.913	41.531	11.630	1.00	45.78
ATOM	3449	CB	ALA	494	-10.133	44.636	11.133	1.00	47.41
ATOM	3450	CS	ALA	494	-10.673	47.131	11.091	1.00	47.38
ATOM	3451	C	ALA	494	-9.773	44.113	11.437	1.00	47.16
ATOM	3452	O	ALA	494	-10.603	47.139	10.116	1.00	46.39
ATOM	3453	N	LEU	495	-8.513	41.731	14.513	1.00	39.39
ATOM	3454	CA	LEU	495	-8.113	41.134	21.073	1.00	37.83
ATOM	3455	CB	LEU	495	-7.126	41.836	21.310	1.00	37.72
ATOM	3456	CG	LEU	495	-7.873	40.812	19.013	1.00	38.31
ATOM	3457	CD1	LEU	495	-6.473	39.017	19.013	1.00	37.37
ATOM	3458	CD2	LEU	495	-8.873	40.111	19.823	1.00	39.73
ATOM	3459	C	LEU	495	-7.443	41.811	21.783	1.00	37.16
ATOM	3460	O	LEU	495	-6.866	44.833	21.473	1.00	35.11
ATOM	3461	N	ALA	496	-7.543	45.414	21.033	1.00	36.75
ATOM	3462	CA	ALA	496	-8.913	44.141	21.14	1.00	37.12
ATOM	3463	CB	ALA	496	-7.783	41.937	21.333	1.00	36.42
ATOM	3464	C	ALA	496	-5.523	41.636	21.366	1.00	37.36
ATOM	3465	O	ALA	496	-4.616	44.417	21.733	1.00	38.36
ATOM	3466	N	ILE	497	-5.130	41.374	21.037	1.00	38.35
ATOM	3467	CA	ILE	497	-3.461	41.793	21.167	1.00	38.33
ATOM	3468	CB	ILE	497	-4.013	40.236	21.133	1.00	37.72
ATOM	3469	CG2	ILE	497	-4.894	39.710	21.433	1.00	37.32
ATOM	3470	CG1	ILE	497	-4.333	39.718	21.916	1.00	38.12
ATOM	3471	CD1	ILE	497	-4.331	38.230	21.813	1.00	38.06
ATOM	3472	C	ILE	497	-3.332	42.230	21.11	1.00	39.35
ATOM	3473	O	ILE	497	-3.017	42.433	21.933	1.00	40.32
ATOM	3474	N	PRO	498	-11.773	42.333	21.017	1.00	39.39
ATOM	3475	CD	PRO	498	-11.043	42.038	21.633	1.00	38.32
ATOM	3476	CA	PRO	498	-6.736	42.737	21.733	1.00	39.36
ATOM	3477	CB	PRO	498	-6.341	42.837	21.033	1.00	40.37
ATOM	3478	CG	PRO	498	-6.733	41.634	21.133	1.00	39.39
ATOM	3479	C	PRO	498	-9.733	41.734	21.137	1.00	40.33
ATOM	3480	O	PRO	498	-6.804	40.551	21.311	1.00	40.33
ATOM	3481	N	VAL	499	-9.631	41.301	19.917	1.00	40.34
ATOM	3482	CA	VAL	499	-9.593	41.473	18.713	1.00	39.37
ATOM	3483	CB	VAL	499	-11.711	41.977	17.713	1.00	39.32
ATOM	3484	CG1	VAL	499	-11.673	40.973	16.517	1.00	39.71
ATOM	3485	CG2	VAL	499	-13.033	41.783	14.413	1.00	39.37
ATOM	3486	C	VAL	499	-9.733	41.537	18.613	1.00	40.33
ATOM	3487	O	VAL	499	-11.031	41.633	17.433	1.00	40.35
ATOM	3488	N	ILE	500	-11.553	40.524	18.033	1.00	41.33
ATOM	3489	CA	ILE	500	-12.863	40.507	17.443	1.00	41.37
ATOM	3490	CB	ILE	500	-13.823	39.523	16.143	1.00	42.39
ATOM	3491	CG2	ILE	500	-11.173	39.527	17.433	1.00	41.73
ATOM	3492	CG1	ILE	500	-11.633	39.137	17.833	1.00	41.31
ATOM	3493	CD1	ILE	500	-11.633	38.133	16.333	1.00	41.71

ATOM	2494	C	ILE	500	2.695	40.090	15.990	1.00	41.61
ATOM	2495	O	ILE	500	2.071	39.064	15.693	1.00	40.85
ATOM	2496	N	GLY	501	3.254	40.481	15.081	1.00	40.82
ATOM	2497	CA	GLY	501	3.118	40.472	13.672	1.00	40.29
ATOM	2498	C	GLY	501	4.371	40.499	12.968	1.00	39.63
ATOM	2499	O	GLY	501	5.494	40.448	13.405	1.00	39.28
ATOM	2500	N	ILE	502	4.154	39.401	11.860	1.00	39.71
ATOM	2501	CA	ILE	502	5.226	38.454	11.632	1.00	41.34
ATOM	2502	CB	ILE	502	5.709	37.384	11.553	1.00	41.52
ATOM	2503	CG2	ILE	502	4.522	36.582	11.830	1.00	42.33
ATOM	2504	CG1	ILE	502	6.659	36.841	10.544	1.00	42.33
ATOM	2505	CD1	ILE	502	7.958	37.584	10.175	1.00	43.95
ATOM	2506	C	ILE	502	4.676	38.766	9.809	1.00	42.06
ATOM	2507	O	ILE	502	4.029	37.781	9.245	1.00	42.10
ATOM	2508	N	GLY	503	4.927	39.401	8.812	1.00	43.11
ATOM	2509	CA	GLY	503	4.426	39.411	7.449	1.00	44.13
ATOM	2510	C	GLY	503	2.981	40.173	7.444	1.00	44.13
ATOM	2511	O	GLY	503	2.215	39.450	6.135	1.00	44.93
ATOM	2512	N	ALA	504	2.612	41.123	8.474	1.00	44.17
ATOM	2513	CA	ALA	504	1.255	41.140	8.610	1.00	45.44
ATOM	2514	CB	ALA	504	6.612	40.476	9.371	1.00	45.34
ATOM	2515	C	ALA	504	1.249	40.465	8.663	1.00	45.36
ATOM	2516	O	ALA	504	0.245	41.477	9.626	1.00	45.69
ATOM	2517	N	GLY	505	2.303	40.472	8.196	1.00	46.27
ATOM	2518	CA	GLY	505	2.465	40.119	8.116	1.00	47.16
ATOM	2519	C	GLY	505	2.955	40.444	9.152	1.00	47.80
ATOM	2520	O	GLY	505	3.187	44.170	10.181	1.00	46.72
ATOM	2521	N	ASN	506	3.106	40.460	9.749	1.00	47.19
ATOM	2522	CA	ASN	506	3.582	40.400	10.974	1.00	47.07
ATOM	2523	CB	ASN	506	4.561	40.125	10.624	1.00	47.68
ATOM	2524	CG	ASN	506	3.932	40.137	9.656	1.00	47.61
ATOM	2525	OD1	ASN	506	4.678	50.613	9.156	1.00	49.34
ATOM	2526	ND2	ASN	506	2.676	49.803	9.788	1.00	47.61
ATOM	2527	C	ASN	506	2.445	40.446	11.836	1.00	47.61
ATOM	2528	O	ASN	506	2.671	40.460	12.134	1.00	48.90
ATOM	2529	CA	VAL	507	1.212	40.481	11.161	1.00	46.35
ATOM	2530	N	VAL	507	8.046	40.116	12.403	1.00	46.94
ATOM	2531	CB	VAL	507	-1.248	40.485	11.482	1.00	47.45
ATOM	2532	CG1	VAL	507	-1.447	40.498	12.029	1.00	48.40
ATOM	2533	CG2	VAL	507	-1.117	40.406	10.117	1.00	48.35
ATOM	2534	C	VAL	507	-0.070	40.487	13.621	1.00	46.12
ATOM	2535	O	VAL	507	-0.693	40.442	14.567	1.00	47.09
ATOM	2536	N	THR	508	0.531	40.171	13.683	1.00	46.59
ATOM	2537	CA	THR	508	0.494	40.435	14.896	1.00	46.09
ATOM	2538	CB	THR	508	1.109	43.415	14.453	1.00	46.09
ATOM	2539	CG1	THR	508	2.438	44.051	14.138	1.00	46.20
ATOM	2540	CG2	THR	508	0.264	43.116	13.658	1.00	45.82
ATOM	2541	C	THR	508	1.239	40.116	16.442	1.00	45.51
ATOM	2542	O	THR	508	2.017	40.464	15.823	1.00	45.13
ATOM	2543	N	ASP	509	0.993	45.592	17.163	1.00	44.71
ATOM	2544	CA	ASP	509	1.630	45.440	18.447	1.00	44.13
ATOM	2545	CB	ASP	509	0.940	45.627	19.113	1.00	44.40
ATOM	2546	CG	ASP	509	-0.541	45.442	19.738	1.00	43.41
ATOM	2547	OD1	ASP	509	-0.899	47.113	19.130	1.00	41.47
ATOM	2548	OD2	ASP	509	-1.349	44.440	19.764	1.00	41.48
ATOM	2549	C	ASP	509	1.113	45.311	18.610	1.00	41.35
ATOM	2550	O	ASP	509	1.914	46.516	19.030	1.00	41.12
ATOM	2551	N	GLY	510	1.473	41.636	17.983	1.00	41.35
ATOM	2552	CA	GLY	510	4.864	44.115	18.001	1.00	44.15
ATOM	2553	C	GLY	510	3.269	43.119	16.749	1.00	41.41
ATOM	2554	O	GLY	510	3.445	43.211	15.879	1.00	40.15
ATOM	2555	N	GLN	511	4.547	44.115	14.607	1.00	43.48
ATOM	2556	CA	GLN	511	2.064	42.117	15.512	1.00	43.01
ATOM	2557	CB	GLN	511	2.893	43.342	14.605	1.00	41.63
ATOM	2558	CG	GLN	511	2.154	44.115	13.398	1.00	38.39
ATOM	2559	CD	GLN	511	1.028	43.317	12.357	1.00	38.03
ATOM	2560	CE1	GLN	511	1.386	43.313	12.136	1.00	36.45
ATOM	2561	NH1	GLN	511	4.878	44.511	13.017	1.00	37.24
ATOM	2562	C	GLN	511	2.430	41.208	15.959	1.00	43.26
ATOM	2563	O	GLN	511	1.432	41.107	15.094	1.00	42.66
ATOM	2564	N	ILE	512	1.139	40.237	15.055	1.00	43.65
ATOM	2565	CA	ILE	512	1.957	39.125	15.343	1.00	44.30
ATOM	2566	CB	ILE	512	1.159	38.057	16.124	1.00	43.90
ATOM	2567	CG1	ILE	512	2.077	47.448	15.164	1.00	44.70
ATOM	2568	CG2	ILE	512	1.108	36.827	16.627	1.00	43.78
ATOM	2569	CD1	ILE	512	1.463	45.697	17.545	1.00	43.66
ATOM	2570	C	ILE	512	1.171	36.534	14.118	1.00	44.69

ATCM	3571	O	ILE	513	8.843	38.689	12.979	1.00	44.73
ATCM	3572	N	LEU	513	10.625	37.879	14.087	1.00	45.11
ATCM	3573	CA	LEU	513	11.215	37.274	12.903	1.00	45.41
ATCM	3574	CB	LEU	513	11.690	38.360	11.936	1.00	47.61
ATCM	3575	CG	LEU	513	11.333	38.180	10.457	1.00	49.48
ATCM	3576	CD1	LEU	513	12.121	39.187	9.645	1.00	50.43
ATCM	3577	CD2	LEU	513	11.051	36.715	9.988	1.00	50.20
ATCM	3578	C	LEU	513	12.400	36.796	11.288	1.00	44.78
ATCM	3579	O	LEU	513	13.040	36.594	14.337	1.00	44.20
ATCM	3580	N	VAL	514	12.714	35.418	12.431	1.00	43.32
ATCM	3581	CA	VAL	514	13.834	34.532	12.681	1.00	43.17
ATCM	3582	CB	VAL	514	13.914	33.415	11.511	1.00	43.69
ATCM	3583	CG1	VAL	514	15.057	32.460	11.968	1.00	43.51
ATCM	3584	CG2	VAL	514	12.594	32.869	11.554	1.00	43.46
ATCM	3585	C	VAL	514	15.114	35.342	12.638	1.00	42.43
ATCM	3586	O	VAL	514	15.877	36.069	12.679	1.00	42.48
ATCM	3587	N	MET	515	15.931	35.114	13.684	1.00	41.21
ATCM	3588	CA	MET	515	17.180	35.053	13.771	1.00	46.22
ATCM	3589	CB	MET	515	17.915	34.134	13.051	1.00	38.49
ATCM	3590	CG	MET	515	18.139	34.837	13.180	1.00	37.77
ATCM	3591	CD	MET	515	19.330	33.741	14.101	1.00	37.43
ATCM	3592	C	MET	515	20.830	33.833	14.775	1.00	38.74
ATCM	3593	O	MET	515	18.684	33.669	12.669	1.00	41.31
ATCM	3594	O	MET	515	18.749	33.371	12.067	1.00	39.84
ATCM	3595	N	HIS	516	18.100	34.420	12.111	1.00	40.39
ATCM	3596	CA	HIS	516	18.916	34.011	10.931	1.00	41.60
ATCM	3597	CB	HIS	516	18.685	33.327	10.634	1.00	40.66
ATCM	3598	CG	HIS	516	19.130	32.878	11.731	1.00	38.68
ATCM	3599	CD2	HIS	516	18.832	31.130	11.933	1.00	37.78
ATCM	3600	ND1	HIS	516	20.317	31.113	12.711	1.00	38.08
ATCM	3601	CE1	HIS	516	20.740	30.408	12.810	1.00	35.88
ATCM	3602	NE2	HIS	516	19.842	30.411	13.514	1.00	37.95
ATCM	3603	C	HIS	516	18.687	34.816	9.718	1.00	42.74
ATCM	3604	O	HIS	516	19.136	35.051	8.830	1.00	41.29
ATCM	3605	N	ASP	517	17.439	33.131	9.367	1.00	42.70
ATCM	3606	CA	ASP	517	17.064	32.134	8.110	1.00	41.81
ATCM	3607	CB	ASP	517	15.640	31.811	7.333	1.00	41.49
ATCM	3608	CG	ASP	517	15.832	34.738	7.134	1.00	41.31
ATCM	3609	DD1	ASP	517	16.137	34.816	6.114	1.00	42.95
ATCM	3610	DD2	ASP	517	14.842	33.877	7.481	1.00	48.46
ATCM	3611	C	ASP	517	17.131	33.179	8.738	1.00	46.65
ATCM	3612	O	ASP	517	17.131	38.411	7.734	1.00	47.65
ATCM	3613	N	ALA	518	17.131	37.933	9.938	1.00	47.52
ATCM	3614	CA	ALA	518	17.239	39.738	10.434	1.00	48.26
ATCM	3615	CB	ALA	518	16.748	38.640	12.730	1.00	47.98
ATCM	3616	C	ALA	518	18.832	38.817	10.432	1.00	48.77
ATCM	3617	O	ALA	518	19.113	41.914	10.430	1.00	48.43
ATCM	3618	N	PHE	519	19.753	38.833	10.432	1.00	49.79
ATCM	3619	CA	PHE	519	21.133	38.193	10.433	1.00	50.88
ATCM	3620	CB	PHE	519	21.311	38.875	11.733	1.00	51.46
ATCM	3621	CG	PHE	519	21.036	38.132	12.937	1.00	51.43
ATCM	3622	CD1	PHE	519	20.851	40.138	13.233	1.00	51.32
ATCM	3623	CD2	PHE	519	20.594	38.143	13.345	1.00	51.65
ATCM	3624	CE1	PHE	519	20.160	40.133	14.334	1.00	51.53
ATCM	3625	CE2	PHE	519	19.339	38.112	14.333	1.00	54.19
ATCM	3626	CZ	PHE	519	19.631	38.833	15.231	1.00	51.69
ATCM	3627	C	PHE	519	21.311	38.833	9.234	1.00	51.31
ATCM	3628	O	PHE	519	22.130	38.113	8.237	1.00	51.70
ATCM	3629	N	GLY	520	21.168	38.833	8.161	1.00	51.46
ATCM	3630	CA	GLY	520	21.750	37.832	8.333	1.00	51.29
ATCM	3631	C	GLY	520	22.608	38.648	7.172	1.00	51.89
ATCM	3632	O	GLY	520	23.839	38.130	8.333	1.00	51.81
ATCM	3633	N	ILE	521	22.035	38.133	7.533	1.00	53.71
ATCM	3634	CA	ILE	521	22.814	37.133	7.833	1.00	54.45
ATCM	3635	CB	ILE	521	22.683	38.133	8.333	1.00	53.41
ATCM	3636	CG2	ILE	521	23.433	37.133	8.531	1.00	51.38
ATCM	3637	CG1	ILE	521	23.109	37.133	11.333	1.00	52.57
ATCM	3638	CD1	ILE	521	22.872	40.133	11.702	1.00	51.81
ATCM	3639	C	ILE	521	22.375	38.133	8.834	1.00	55.91
ATCM	3640	O	ILE	521	23.133	38.133	8.467	1.00	58.51
ATCM	3641	N	THR	522	21.039	38.133	8.533	1.00	57.60
ATCM	3642	CA	THR	522	22.517	37.133	8.333	1.00	63.64
ATCM	3643	CB	THR	522	19.147	37.133	8.133	1.00	63.34
ATCM	3644	CG1	THR	522	18.278	37.133	8.433	1.00	58.37
ATCM	3645	CG2	THR	522	19.301	31.033	7.533	1.00	60.73
ATCM	3646	C	THR	522	20.355	38.133	8.133	1.00	61.63
ATCM	3647	O	THR	522	20.733	38.133	8.333	1.00	61.33

ATOM	3648	N	GLY	523	20.959	31.942	2.324	1.00	63.15
ATOM	3649	CA	GLY	523	20.881	32.276	1.911	1.00	63.08
ATOM	3650	C	GLY	523	20.874	33.752	1.601	1.00	63.44
ATOM	3651	O	GLY	523	21.492	34.967	2.305	1.00	63.66
ATOM	3652	N	GLY	524	20.170	34.127	0.536	1.00	66.99
ATOM	3653	CA	GLY	524	20.690	35.121	0.146	1.00	67.88
ATOM	3654	C	GLY	524	18.666	35.985	-0.116	1.00	68.73
ATOM	3655	O	GLY	524	18.280	37.077	0.220	1.00	69.43
ATOM	3656	N	HIS	525	17.680	35.071	-0.719	1.00	69.03
ATOM	3657	CA	HIS	525	16.487	35.397	-1.023	1.00	69.66
ATOM	3658	CB	HIS	525	15.987	34.488	-2.163	1.00	70.70
ATOM	3659	CG	HIS	525	16.435	34.968	-3.526	1.00	71.89
ATOM	3660	CD	HIS	525	17.174	34.727	-4.469	1.00	71.58
ATOM	3661	ND1	HIS	525	16.101	36.177	-4.039	1.00	71.13
ATOM	3662	CE1	HIS	525	16.620	36.329	-5.250	1.00	71.53
ATOM	3663	NE2	HIS	525	17.271	35.178	-5.535	1.00	70.71
ATOM	3664	C	HIS	526	15.578	35.109	0.191	1.00	69.38
ATOM	3665	O	HIS	526	14.651	34.396	0.177	1.00	68.47
ATOM	3666	N	ILE	526	15.649	35.929	1.240	1.00	68.60
ATOM	3667	CA	ILE	526	15.047	35.951	1.457	1.00	67.80
ATOM	3668	CB	ILE	526	15.153	36.391	1.311	1.00	67.53
ATOM	3669	CG1	ILE	526	17.081	36.361	1.871	1.00	68.10
ATOM	3670	CG2	ILE	526	15.431	36.334	2.324	1.00	67.43
ATOM	3671	CD1	ILE	526	15.759	36.414	2.890	1.00	67.21
ATOM	3672	C	ILE	527	13.601	36.177	1.136	1.00	67.00
ATOM	3673	O	ILE	527	13.325	36.917	1.356	1.00	67.10
ATOM	3674	N	PRO	527	12.657	35.999	1.118	1.00	66.11
ATOM	3675	CA	PRO	527	12.814	35.968	4.158	1.00	66.00
ATOM	3676	CB	PRO	527	11.254	36.177	2.347	1.00	66.33
ATOM	3677	CG	PRO	527	10.581	35.111	2.874	1.00	66.13
ATOM	3678	CG	PRO	527	11.363	36.384	5.750	1.00	66.18
ATOM	3679	C	PRO	527	11.623	36.368	2.358	1.00	63.14
ATOM	3680	O	PRO	527	11.708	36.191	3.141	1.00	64.00
ATOM	3681	N	LYS	528	10.638	36.119	1.709	1.00	66.16
ATOM	3682	CA	LYS	528	9.719	36.348	1.440	1.00	62.18
ATOM	3683	CB	LYS	528	8.104	36.198	0.367	1.00	63.14
ATOM	3684	CG	LYS	528	8.568	36.368	-0.111	1.00	63.18
ATOM	3685	CD	LYS	528	8.054	36.191	-0.389	1.00	63.59
ATOM	3686	CE	LYS	528	6.237	36.198	-1.359	1.00	63.15
ATOM	3687	NZ	LYS	528	9.409	36.198	-2.131	1.00	63.11
ATOM	3688	C	LYS	528	9.447	40.377	2.700	1.00	61.11
ATOM	3689	O	LYS	528	9.874	41.405	2.311	1.00	60.81
ATOM	3690	N	PHE	529	8.726	39.711	1.648	1.00	56.43
ATOM	3691	CA	PHE	529	8.379	40.383	4.899	1.00	57.66
ATOM	3692	CB	PHE	529	7.358	39.341	5.608	1.00	57.26
ATOM	3693	CG	PHE	529	7.586	38.168	5.381	1.00	56.53
ATOM	3694	CD1	PHE	529	8.487	37.967	6.187	1.00	56.14
ATOM	3695	CD2	PHE	529	6.330	37.119	5.140	1.00	56.12
ATOM	3696	CE1	PHE	529	8.783	36.433	7.146	1.00	56.59
ATOM	3697	CE2	PHE	529	7.189	36.813	5.196	1.00	56.57
ATOM	3698	CZ	PHE	529	8.131	35.478	6.396	1.00	56.19
ATOM	3699	C	PHE	529	9.164	40.356	5.144	1.00	56.57
ATOM	3700	O	PHE	529	9.463	41.212	6.343	1.00	56.43
ATOM	3701	N	ALA	530	10.634	33.361	5.321	1.00	56.18
ATOM	3702	CA	ALA	530	11.478	33.361	6.357	1.00	56.61
ATOM	3703	CB	ALA	530	12.611	33.681	6.368	1.00	56.37
ATOM	3704	C	ALA	530	12.610	41.114	5.164	1.00	56.36
ATOM	3705	O	ALA	530	12.537	41.368	4.366	1.00	56.61
ATOM	3706	N	LYS	531	13.841	41.399	6.311	1.00	56.09
ATOM	3707	CA	LYS	531	14.816	42.421	6.361	1.00	56.80
ATOM	3708	CB	LYS	531	14.309	43.399	6.361	1.00	56.80
ATOM	3709	CG	LYS	531	15.289	44.361	6.361	1.00	56.80
ATOM	3710	CD	LYS	531	14.726	46.380	6.361	1.00	56.80
ATOM	3711	CE	LYS	531	15.716	47.397	6.361	1.00	56.80
ATOM	3712	NZ	LYS	531	15.170	48.329	6.361	1.00	56.80
ATOM	3713	C	LYS	531	16.161	42.166	6.361	1.00	56.80
ATOM	3714	O	LYS	531	16.229	41.340	8.133	1.00	54.41
ATOM	3715	N	ASN	532	17.237	42.316	6.233	1.00	54.73
ATOM	3716	CA	ASN	532	18.591	42.119	6.773	1.00	54.93
ATOM	3717	CB	ASN	532	19.543	41.309	5.548	1.00	54.87
ATOM	3718	CG	ASN	532	20.931	41.399	6.017	1.00	54.96
ATOM	3719	CD	ASN	532	21.469	41.363	6.966	1.00	54.03
ATOM	3720	ND1	ASN	532	21.523	40.423	5.335	1.00	54.07
ATOM	3721	C	ASN	532	19.064	43.373	7.434	1.00	55.48
ATOM	3722	O	ASN	532	19.213	44.422	6.798	1.00	56.16
ATOM	3723	N	PRO	533	19.053	43.236	8.173	1.00	55.33
ATOM	3724	CA	PRO	533	19.211	44.423	9.373	1.00	55.33

ATOM	1725	CB	PHE	512	19.655	44.463	10.371	1.00	56.06
ATOM	1726	CG	PHE	512	17.607	44.867	10.312	1.00	56.19
ATOM	1727	CD1	PHE	512	16.644	42.993	10.303	1.00	56.16
ATOM	1728	CD2	PHE	512	17.104	46.124	11.245	1.00	56.64
ATOM	1729	CE1	PHE	512	15.811	44.271	10.128	1.00	56.17
ATOM	1730	CE2	PHE	512	15.863	46.111	11.173	1.00	56.16
ATOM	1731	CZ	PHE	512	14.901	45.634	10.265	1.00	56.79
ATOM	1732	O	PHE	512	21.155	44.446	9.695	1.00	56.80
ATOM	1733	O	PHE	512	21.863	45.414	10.199	1.00	56.46
ATOM	1734	N	LEU	514	21.921	42.307	9.197	1.00	57.79
ATOM	1735	CA	LEU	514	22.177	42.281	9.425	1.00	58.91
ATOM	1736	CB	LEU	514	22.811	41.810	9.535	1.00	58.66
ATOM	1737	CG	LEU	514	22.817	41.588	9.748	1.00	57.55
ATOM	1738	CD1	LEU	514	22.744	41.191	11.576	1.00	56.50
ATOM	1739	CD2	LEU	514	22.801	46.058	9.718	1.00	57.65
ATOM	1740	C	LEU	514	24.041	41.948	8.320	1.00	60.52
ATOM	1741	C	LEU	514	22.201	44.537	8.384	1.00	60.19
ATOM	1742	N	ALA	511	21.150	44.610	7.118	1.00	62.13
ATOM	1743	CA	ALA	511	21.316	44.611	5.191	1.00	64.07
ATOM	1744	CB	ALA	511	21.195	44.213	4.117	1.00	64.69
ATOM	1745	C	ALA	511	22.115	46.127	6.148	1.00	65.17
ATOM	1746	O	ALA	511	24.111	46.117	5.167	1.00	65.11
ATOM	1747	N	GLU	513	22.034	46.672	6.159	1.00	65.37
ATOM	1748	CA	GLU	513	22.081	48.004	7.131	1.00	67.10
ATOM	1749	CB	GLU	513	21.118	48.403	7.121	1.00	68.14
ATOM	1750	CG	GLU	513	20.197	47.779	7.194	1.00	69.12
ATOM	1751	CD	GLU	513	20.117	48.366	5.117	1.00	70.46
ATOM	1752	OE1	GLU	513	21.117	48.156	4.161	1.00	71.10
ATOM	1753	OE2	GLU	513	22.111	48.054	5.181	1.00	70.17
ATOM	1754	C	GLU	513	24.111	48.435	8.121	1.00	66.96
ATOM	1755	O	GLU	513	24.111	48.112	6.161	1.00	67.14
ATOM	1756	N	THR	512	24.166	47.115	8.171	1.00	66.16
ATOM	1757	CA	THR	512	24.166	47.141	9.101	1.00	65.80
ATOM	1758	CB	THR	512	21.111	47.781	10.166	1.00	65.16
ATOM	1759	CG1	THR	512	22.164	48.164	11.141	1.00	65.18
ATOM	1760	CG2	THR	512	24.166	48.146	11.151	1.00	65.13
ATOM	1761	C	THR	512	27.112	46.117	9.169	1.00	65.16
ATOM	1762	O	THR	512	27.110	47.162	8.142	1.00	65.16
ATOM	1763	N	GLA	512	27.104	46.140	10.108	1.00	64.14
ATOM	1764	CA	GLY	508	26.159	45.149	10.182	1.00	63.04
ATOM	1765	C	GLY	508	26.106	44.174	11.117	1.00	62.17
ATOM	1766	O	GLY	508	36.102	44.101	11.183	1.00	62.04
ATOM	1767	N	ASP	519	26.106	44.149	12.162	1.00	61.49
ATOM	1768	CA	ASP	519	26.102	44.142	13.185	1.00	60.14
ATOM	1769	CB	ASP	519	26.158	45.140	14.157	1.00	62.06
ATOM	1770	CG	ASP	519	26.150	43.138	16.262	1.00	63.43
ATOM	1771	CD1	ASP	519	26.122	41.143	17.226	1.00	63.49
ATOM	1772	CD2	ASP	519	26.170	43.145	16.402	1.00	64.82
ATOM	1773	C	ASP	519	26.166	43.184	14.123	1.00	19.48
ATOM	1774	O	ASP	519	26.124	44.158	13.705	1.00	58.15
ATOM	1775	N	ILE	540	26.185	41.173	14.582	1.00	58.12
ATOM	1776	CA	ILE	540	26.155	41.147	14.167	1.00	56.14
ATOM	1777	CB	ILE	540	26.150	41.131	15.456	1.00	57.15
ATOM	1778	CG2	ILE	540	24.158	38.161	15.772	1.00	56.17
ATOM	1779	CG1	ILE	540	26.156	38.149	14.461	1.00	56.82
ATOM	1780	CD1	ILE	540	21.153	36.124	15.039	1.00	57.17
ATOM	1781	C	ILE	540	21.112	42.114	15.164	1.00	54.18
ATOM	1782	O	ILE	540	21.110	42.114	15.169	1.00	53.14
ATOM	1783	N	ARG	541	26.152	43.112	16.132	1.00	52.13
ATOM	1784	CA	ARG	541	24.154	43.110	17.155	1.00	53.18
ATOM	1785	CB	ARG	541	21.104	44.113	18.115	1.00	19.15
ATOM	1786	CG	ARG	541	26.156	41.107	19.157	1.00	18.14
ATOM	1787	CD	ARG	541	27.116	43.126	20.136	1.00	47.15
ATOM	1788	NE	ARG	541	27.116	42.103	21.155	1.00	17.14
ATOM	1789	CD	ARG	541	23.112	41.105	21.187	1.00	47.17
ATOM	1790	NH1	ARG	541	26.133	41.104	19.187	1.00	47.11
ATOM	1791	NH2	ARG	541	26.159	40.104	21.181	1.00	47.16
ATOM	1792	C	ARG	541	23.199	45.106	17.159	1.00	50.10
ATOM	1793	O	ARG	541	22.115	45.115	17.709	1.00	50.16
ATOM	1794	N	ALA	541	24.175	45.104	16.147	1.00	50.14
ATOM	1795	CA	ALA	541	24.207	46.102	15.770	1.00	49.17
ATOM	1796	CB	ALA	541	25.169	47.137	14.394	1.00	49.13
ATOM	1797	C	ALA	541	22.199	46.114	15.029	1.00	49.12
ATOM	1798	O	ALA	541	22.105	47.117	15.104	1.00	49.17
ATOM	1799	N	ALA	541	22.142	45.179	14.232	1.00	49.14
ATOM	1800	CA	ALA	541	21.173	45.199	13.151	1.00	48.15
ATOM	1801	CB	ALA	541	22.117	43.111	12.181	1.00	47.17

ATCM	3802	C	ALA	543	20.593	44.882	14.554	1.00	48.49
ATCM	3803	O	ALA	543	19.431	45.095	14.205	1.00	48.93
ATCM	3804	N	VAL	544	20.923	44.462	15.773	1.00	47.91
ATCM	3805	CA	VAL	544	20.921	44.220	15.807	1.00	48.15
ATCM	3806	CB	VAL	544	20.947	44.544	15.854	1.00	47.72
ATCM	3807	CG1	VAL	544	20.949	44.354	15.133	1.00	48.12
ATCM	3808	CG2	VAL	544	21.151	42.203	15.670	1.00	47.67
ATCM	3809	C	VAL	544	21.180	42.255	15.334	1.00	48.55
ATCM	3810	O	VAL	544	20.050	46.670	17.229	1.00	48.62
ATCM	3811	N	AFG	545	20.112	46.503	17.692	1.00	47.85
ATCM	3812	CA	AFG	545	20.013	47.804	18.035	1.00	48.51
ATCM	3813	CB	AFG	545	20.271	46.639	18.421	1.00	47.82
ATCM	3814	CG	AFG	545	21.178	46.204	18.702	1.00	49.07
ATCM	3815	CI	AFG	545	22.151	49.289	20.325	1.00	49.84
ATCM	3816	NE	AFG	545	22.473	49.659	19.477	1.00	51.11
ATCM	3817	CZ	AFG	545	21.521	48.777	19.235	1.00	51.17
ATCM	3818	NH1	AFG	545	24.546	53.174	19.287	1.00	52.35
ATCM	3819	NH2	AFG	545	25.447	49.600	15.444	1.00	51.12
ATCM	3820	O	AFG	545	19.226	47.461	18.208	1.00	48.39
ATCM	3821	C	AFG	545	19.106	48.119	17.201	1.00	47.86
ATCM	3822	N	GLN	546	19.146	48.138	15.134	1.00	48.12
ATCM	3823	CA	GLN	546	19.110	48.341	14.338	1.00	50.17
ATCM	3824	CE	GLN	546	19.409	48.166	12.147	1.00	51.71
ATCM	3825	CG	GLN	546	18.845	49.181	12.002	1.00	54.04
ATCM	3826	CD	GLN	546	19.035	48.126	11.036	1.00	55.89
ATCM	3827	CE1	GLN	546	20.819	49.585	13.751	1.00	52.97
ATCM	3828	NEH	GLN	546	19.700	48.180	20.357	1.00	56.73
ATCM	3829	C	GLN	546	19.748	48.122	14.264	1.00	56.05
ATCM	3830	O	GLN	546	19.148	48.226	14.001	1.00	48.94
ATCM	3831	N	TYR	547	19.139	48.202	14.840	1.00	49.11
ATCM	3832	CA	TYR	547	19.141	48.117	14.737	1.00	48.54
ATCM	3833	CB	TYR	547	20.113	48.200	14.840	1.00	48.58
ATCM	3834	CG	TYR	547	14.844	48.225	14.445	1.00	50.44
ATCM	3835	CD1	TYR	547	14.865	48.112	13.885	1.00	51.69
ATCM	3836	CE1	TYR	547	17.143	48.104	11.004	1.00	51.11
ATCM	3837	CD2	TYR	547	14.847	48.149	14.145	1.00	51.10
ATCM	3838	CE2	TYR	547	15.476	48.147	14.017	1.00	51.16
ATCM	3839	CZ	TYR	547	12.110	48.149	13.164	1.00	51.16
ATCM	3840	CH	TYR	547	11.449	48.146	13.101	1.00	51.15
ATCM	3841	C	TYR	547	14.846	48.141	15.145	1.00	47.15
ATCM	3842	O	TYR	547	13.734	47.732	15.146	1.00	46.11
ATCM	3843	N	MET	548	15.845	48.902	16.739	1.00	48.59
ATCM	3844	CA	MET	548	14.961	48.421	17.844	1.00	48.65
ATCM	3845	CB	MET	548	15.243	47.471	19.113	1.00	43.12
ATCM	3846	CG	MET	548	15.852	46.146	19.534	1.00	44.12
ATCM	3847	CD	MET	548	17.010	46.172	20.248	1.00	43.14
ATCM	3848	CE	MET	548	15.462	46.115	22.333	1.00	45.14
ATCM	3849	C	MET	548	14.716	46.123	17.479	1.00	45.08
ATCM	3850	O	MET	548	12.859	49.186	17.788	1.00	43.72
ATCM	3851	N	ALA	549	14.329	48.607	16.216	1.00	45.11
ATCM	3852	CA	ALA	549	14.642	50.073	16.615	1.00	45.19
ATCM	3853	CB	ALA	549	15.223	51.651	16.444	1.00	44.23
ATCM	3854	C	ALA	549	13.561	51.342	15.434	1.00	45.78
ATCM	3855	O	ALA	549	12.718	51.605	15.866	1.00	45.86
ATCM	3856	N	GLU	550	13.447	50.443	14.147	1.00	46.83
ATCM	3857	CA	GLU	550	12.445	50.441	13.156	1.00	48.03
ATCM	3858	CB	GLU	550	13.470	49.677	11.445	1.00	48.70
ATCM	3859	CG	GLU	550	14.115	50.184	11.109	1.00	51.84
ATCM	3860	CD	GLU	550	14.079	49.136	9.848	1.00	52.43
ATCM	3861	CE1	GLU	550	13.789	49.489	9.447	1.00	54.25
ATCM	3862	CE2	GLU	550	15.441	48.474	9.146	1.00	53.31
ATCM	3863	C	GLU	550	11.447	48.446	13.111	1.00	49.16
ATCM	3864	O	GLU	550	10.842	50.000	13.447	1.00	49.22
ATCM	3865	N	VAL	551	11.447	48.447	14.243	1.00	48.94
ATCM	3866	CA	VAL	551	10.149	48.440	14.000	1.00	48.91
ATCM	3867	CB	VAL	551	10.147	47.447	15.147	1.00	48.57
ATCM	3868	CG1	VAL	551	9.146	46.441	16.043	1.00	48.11
ATCM	3869	CG2	VAL	551	11.147	45.447	14.643	1.00	49.64
ATCM	3870	C	VAL	551	9.449	48.146	15.146	1.00	48.71
ATCM	3871	O	VAL	551	8.143	48.344	15.146	1.00	48.30
ATCM	3872	N	GLU	552	10.110	50.146	16.198	1.00	48.40
ATCM	3873	CA	GLU	552	9.441	51.142	17.143	1.00	48.58
ATCM	3874	CB	GLU	552	10.143	51.143	18.145	1.00	48.60
ATCM	3875	CG	GLU	552	9.143	50.141	19.593	1.00	48.39
ATCM	3876	CD	GLU	552	10.140	50.145	20.704	1.00	48.42
ATCM	3877	CE1	GLU	552	10.149	50.147	21.642	1.00	56.45
ATCM	3878	CE2	GLU	552	11.643	51.647	19.670	1.00	57.64

ATOM	3879	C	GLU	552	9.217	52.323	16.492	1.00	53.07
ATOM	3880	O	GLU	552	8.295	53.073	16.811	1.00	52.73
ATOM	3881	N	SER	553	10.035	52.570	15.474	1.00	52.74
ATOM	3882	CA	SER	553	9.903	53.562	14.651	1.00	53.94
ATOM	3883	CB	SER	553	11.210	54.065	13.958	1.00	54.05
ATOM	3884	OG	SER	553	12.264	54.753	14.908	1.00	56.04
ATOM	3885	C	SER	553	8.811	52.583	13.607	1.00	54.10
ATOM	3886	O	SER	553	8.314	54.556	13.034	1.00	53.78
ATOM	3887	N	GLY	554	8.419	52.273	13.256	1.00	53.73
ATOM	3888	CA	GLY	554	7.413	52.011	12.371	1.00	53.14
ATOM	3889	C	GLY	554	8.037	51.889	11.003	1.00	53.03
ATOM	3890	O	GLY	554	7.353	51.571	10.036	1.00	52.59
ATOM	3891	N	VAL	555	9.347	52.109	10.931	1.00	52.98
ATOM	3892	CA	VAL	555	10.079	51.986	9.677	1.00	52.87
ATOM	3893	CB	VAL	555	11.565	52.567	9.862	1.00	53.58
ATOM	3894	CG1	VAL	555	12.285	52.529	8.523	1.00	52.84
ATOM	3895	CG2	VAL	555	11.671	52.549	10.485	1.00	53.68
ATOM	3896	C	VAL	555	9.998	52.594	9.156	1.00	52.67
ATOM	3897	O	VAL	555	9.908	52.314	7.948	1.00	52.73
ATOM	3898	N	TYR	556	11.071	49.558	10.076	1.00	52.30
ATOM	3899	CA	TYR	556	9.960	49.183	8.719	1.00	51.50
ATOM	3900	CB	TYR	556	11.277	49.454	10.173	1.00	51.85
ATOM	3901	CG	TYR	556	11.214	49.977	9.869	1.00	51.69
ATOM	3902	CD1	TYR	556	11.214	49.519	8.552	1.00	50.94
ATOM	3903	CD2	TYR	556	11.289	49.166	8.260	1.00	51.78
ATOM	3904	CD3	TYR	556	11.113	49.004	10.892	1.00	51.14
ATOM	3905	OE2	TYR	556	11.047	49.670	10.613	1.00	50.47
ATOM	3906	C2	TYR	556	11.083	49.341	9.095	1.00	50.81
ATOM	3907	OH	TYR	556	10.695	49.967	9.030	1.00	50.55
ATOM	3908	N	TYR	556	8.741	49.501	10.163	1.00	51.68
ATOM	3909	O	TYR	556	8.529	49.653	11.568	1.00	51.13
ATOM	3910	N	PRO	557	11.927	49.800	9.565	1.00	52.11
ATOM	3911	CD	PRO	557	8.797	49.619	10.067	1.00	52.68
ATOM	3912	CA	PRO	557	8.100	49.601	8.100	1.00	52.99
ATOM	3913	CB	PRO	557	7.113	49.405	7.840	1.00	52.64
ATOM	3914	CG	PRO	557	8.089	49.634	8.586	1.00	52.81
ATOM	3915	C	PRO	557	7.684	49.819	7.292	1.00	53.09
ATOM	3916	O	PRO	557	8.562	49.556	7.664	1.00	53.48
ATOM	3917	N	GLY	558	8.566	49.036	6.170	1.00	52.27
ATOM	3918	CA	GLY	558	8.055	49.001	5.116	1.00	51.64
ATOM	3919	C	GLY	558	8.840	49.567	4.444	1.00	54.13
ATOM	3920	O	GLY	558	5.703	49.632	4.900	1.00	54.10
ATOM	3921	N	GLU	559	7.061	49.580	3.186	1.00	51.86
ATOM	3922	CA	GLU	559	6.001	49.309	2.245	1.00	54.22
ATOM	3923	CB	GLU	559	5.822	49.482	1.276	1.00	55.40
ATOM	3924	CG	GLU	559	4.506	49.415	0.461	1.00	56.21
ATOM	3925	CD	GLU	559	3.295	49.190	1.321	1.00	56.50
ATOM	3926	OE1	GLU	559	2.175	49.406	0.860	1.00	57.07
ATOM	3927	OE2	GLU	559	2.440	49.916	2.518	1.00	57.03
ATOM	3928	C	GLU	559	6.295	49.038	1.452	1.00	54.13
ATOM	3929	O	GLU	559	5.378	49.336	1.026	1.00	53.93
ATOM	3930	N	GLU	560	7.576	49.751	1.253	1.00	55.63
ATOM	3931	CA	GLU	560	6.977	49.520	0.515	1.00	54.17
ATOM	3932	CB	GLU	560	6.409	49.719	-0.027	1.00	54.49
ATOM	3933	CG	GLU	560	5.861	49.161	-0.132	1.00	55.28
ATOM	3934	CD	GLU	560	13.388	49.700	1.180	1.00	55.88
ATOM	3935	OE1	GLU	560	11.523	49.533	1.583	1.00	55.57
ATOM	3936	OE2	GLU	560	9.668	49.478	1.850	1.00	55.73
ATOM	3937	C	GLU	560	7.912	49.352	1.441	1.00	55.99
ATOM	3938	O	GLU	560	6.119	49.213	1.913	1.00	54.19
ATOM	3939	N	HIS	561	7.621	49.616	2.712	1.00	53.66
ATOM	3940	CA	HIS	561	7.537	49.571	3.727	1.00	53.93
ATOM	3941	CB	HIS	561	6.320	49.975	4.972	1.00	53.33
ATOM	3942	CG	HIS	561	9.697	49.507	4.676	1.00	52.71
ATOM	3943	CD	HIS	561	10.282	49.720	4.914	1.00	52.67
ATOM	3944	NE1	HIS	561	10.662	49.753	4.057	1.00	52.82
ATOM	3945	OE1	HIS	561	11.758	49.482	3.926	1.00	53.52
ATOM	3946	NE2	HIS	561	11.529	49.677	4.439	1.00	52.58
ATOM	3947	C	HIS	561	8.073	49.340	4.124	1.00	52.49
ATOM	3948	O	HIS	561	7.783	49.508	4.983	1.00	52.28
ATOM	3949	N	SER	562	3.164	49.081	3.495	1.00	51.41
ATOM	3950	CA	SER	562	3.741	49.973	3.794	1.00	50.51
ATOM	3951	CB	SER	562	3.177	49.359	4.108	1.00	50.14
ATOM	3952	CG	SER	562	3.950	49.021	5.086	1.00	49.54
ATOM	3953	C	SER	562	2.956	49.350	2.644	1.00	50.59
ATOM	3954	O	SER	562	3.281	49.538	1.488	1.00	51.39
ATOM	3955	N	SER	562	1.875	49.764	2.765	1.00	51.19

ATOM	3956	CA	PHE	563	0.966	42.144	1.953	1.00	51.90
ATOM	3957	CB	PHE	563	0.792	40.649	2.230	1.00	51.88
ATOM	3958	CG	PHE	563	2.085	39.889	2.231	1.00	52.62
ATOM	3959	CD1	PHE	563	2.900	39.800	3.481	1.00	52.62
ATOM	3960	CD2	PHE	563	2.598	39.374	1.154	1.00	52.42
ATOM	3961	CE1	PHE	563	4.008	39.107	2.540	1.00	53.30
ATOM	3962	CE2	PHE	563	3.905	38.380	1.200	1.00	53.30
ATOM	3963	CZ	PHE	563	4.512	38.496	2.397	1.00	53.09
ATOM	3964	C	PHE	563	-0.396	42.820	1.925	1.00	52.18
ATOM	3965	O	PHE	563	-0.847	42.571	2.930	1.00	51.96
ATOM	3966	N	HIS	564	-1.051	42.375	0.771	1.00	53.24
ATOM	3967	CA	HIS	564	-2.362	43.394	0.617	1.00	54.66
ATOM	3968	CB	HIS	564	-2.228	44.309	-0.155	1.00	54.83
ATOM	3969	CG	HIS	564	-1.305	45.696	0.494	1.00	55.50
ATOM	3970	CD2	HIS	564	-0.118	46.306	0.036	1.00	55.30
ATOM	3971	ND1	HIS	564	-1.564	46.262	1.732	1.00	55.51
ATOM	3972	CE1	HIS	564	-0.577	47.679	2.046	1.00	55.12
ATOM	3973	NE2	HIS	564	0.314	47.662	1.073	1.00	55.47
ATOM	3974	C	HIS	564	-1.315	42.457	-0.111	1.00	54.19
ATOM	3975	O	HIS	564	-4.355	42.152	0.434	1.00	54.03
ATOM	3976	CGT	HIS	564	-2.906	42.040	1.238	1.00	55.89
ATOM	3977	C1	FPL	565	8.381	32.805	10.290	1.00	41.48
ATOM	3978	C2	FPL	565	7.700	33.008	10.314	1.00	41.50
ATOM	3979	C3	FPL	565	8.747	33.342	14.553	1.00	41.04
ATOM	3980	C4	FPL	565	6.432	33.329	13.617	1.00	42.99
ATOM	3981	C1	FPL	565	5.502	32.994	12.852	1.00	47.13
ATOM	3982	C5	FPL	565	7.641	31.537	14.213	1.00	42.17
ATOM	3983	C2	FPL	565	6.548	31.138	14.686	1.00	40.23
ATOM	3984	C6	FPL	565	8.877	30.664	14.510	1.00	39.79
ATOM	3985	C3	FPL	565	9.940	31.012	14.179	1.00	41.42
ATOM	3986	C4	FPL	565	8.649	29.443	15.040	1.00	37.97
ATOM	3987	CB	MET	601	10.250	31.148	-10.646	1.00	39.60
ATOM	3988	CG	MET	601	-9.281	30.343	-11.511	1.00	31.50
ATOM	3989	SD	MET	601	7.632	21.063	-11.729	1.00	73.90
ATOM	3990	CE	MET	601	6.646	19.961	-10.716	1.00	73.00
ATOM	3991	C	MET	601	8.842	22.547	-9.389	1.00	66.90
ATOM	3992	O	MET	601	8.861	23.439	-9.640	1.00	67.63
ATOM	3993	N	MET	601	9.133	30.080	-8.693	1.00	68.99
ATOM	3994	CA	MET	601	9.787	21.337	-9.196	1.00	68.18
ATOM	3995	N	LYS	602	9.036	23.070	-8.002	1.00	64.70
ATOM	3996	CA	LYS	602	7.130	23.667	-7.796	1.00	63.08
ATOM	3997	CB	LYS	602	5.693	23.272	-8.237	1.00	61.38
ATOM	3998	CG	LYS	602	5.567	23.006	-9.571	1.00	64.51
ATOM	3999	CD	LYS	602	5.683	24.288	-10.545	1.00	61.81
ATOM	4000	CE	LYS	602	4.432	25.007	-10.311	1.00	61.96
ATOM	4001	NZ	LYS	602	4.639	26.497	-11.073	1.00	60.71
ATOM	4002	C	LYS	602	7.105	24.081	-6.302	1.00	59.15
ATOM	4003	O	LYS	602	7.230	23.263	-6.006	1.00	59.50
ATOM	4004	N	PRO	603	6.919	21.112	-5.346	1.00	65.04
ATOM	4005	CD	PRO	603	7.165	21.394	-3.964	1.00	64.13
ATOM	4006	CA	PRO	603	6.772	21.673	-5.613	1.00	61.11
ATOM	4007	CB	PRO	603	7.269	21.076	-4.103	1.00	62.33
ATOM	4008	CG	PRO	603	6.732	21.075	-3.111	1.00	63.39
ATOM	4009	C	PRO	603	5.317	21.318	-5.839	1.00	46.83
ATOM	4010	O	PRO	603	4.426	20.143	-5.704	1.00	47.24
ATOM	4011	N	THP	604	5.079	23.088	-6.129	1.00	41.83
ATOM	4012	CA	THP	604	3.737	18.639	-6.027	1.00	46.41
ATOM	4013	CB	THP	604	3.742	18.241	-7.168	1.00	46.25
ATOM	4014	CG1	THP	604	4.564	18.265	-8.440	1.00	44.71
ATOM	4015	CG2	THP	604	2.331	19.811	-7.450	1.00	45.23
ATOM	4016	C	THP	604	2.002	19.582	-5.150	1.00	43.13
ATOM	4017	O	THP	604	3.170	18.883	-4.198	1.00	41.13
ATOM	4018	N	THP	605	1.742	20.334	-5.126	1.00	40.63
ATOM	4019	CA	THR	605	0.029	20.307	-4.153	1.00	39.21
ATOM	4020	CB	THR	605	0.521	21.786	-3.865	1.00	39.83
ATOM	4021	CG1	THR	605	0.134	21.635	-4.136	1.00	33.41
ATOM	4022	CG2	THR	605	2.341	21.245	-3.539	1.00	34.99
ATOM	4023	C	THR	605	0.505	19.970	-4.524	1.00	27.07
ATOM	4024	O	THR	605	0.823	19.779	-5.700	1.00	23.26
ATOM	4025	N	ILE	606	-1.358	19.885	-3.568	1.00	21.97
ATOM	4026	CA	ILE	606	-1.767	19.551	-3.684	1.00	21.23
ATOM	4027	CB	ILE	606	-1.495	19.497	-2.318	1.00	23.83
ATOM	4028	CG1	ILE	606	-1.942	19.052	-2.510	1.00	21.52
ATOM	4029	CG2	ILE	606	-1.767	19.531	-1.361	1.00	23.76
ATOM	4030	CH1	ILE	606	-1.204	18.634	-0.677	1.00	32.70
ATOM	4031	O	ILE	606	-1.459	20.593	-4.558	1.00	22.72
ATOM	4032	C	ILE	606	-4.177	20.204	-3.397	1.00	21.55

ATOM	4023	N	SER	607	-4.095	21.854	-4.359	1.00	21.35
ATOM	4034	CA	SER	607	-3.691	22.947	-5.113	1.00	21.40
ATOM	4035	CB	SER	607	-3.042	24.171	-4.712	1.00	23.61
ATOM	4036	OG	SER	607	-2.247	24.112	-3.732	1.00	20.17
ATOM	4037	O	SER	607	-3.552	22.744	-6.418	1.00	20.50
ATOM	4038	O	SEP	607	-4.427	23.140	-7.450	1.00	19.33
ATOM	4039	N	LEU	608	-1.448	22.719	-7.125	1.00	20.23
ATOM	4040	CA	LEU	608	-2.194	21.879	-8.347	1.00	20.79
ATOM	4041	CB	LEU	608	-0.772	21.749	-8.435	1.00	22.00
ATOM	4042	CG	LEU	608	0.040	21.902	-9.802	1.00	25.44
ATOM	4043	CD1	LEU	608	1.261	21.010	-10.034	1.00	25.12
ATOM	4044	CD2	LEU	608	-0.794	21.996	-11.053	1.00	26.06
ATOM	4045	C	LEU	608	-3.196	20.859	-8.979	1.00	18.73
ATOM	4046	O	LEU	608	-3.749	21.022	-10.668	1.00	16.03
ATOM	4047	N	LEU	609	-3.425	19.799	-8.116	1.00	16.93
ATOM	4048	CA	LEU	609	-4.255	18.770	-8.645	1.00	15.93
ATOM	4049	CB	LEU	609	-4.784	17.764	-7.715	1.00	14.64
ATOM	4050	CG	LEU	609	-0.919	16.894	-7.636	1.00	16.09
ATOM	4051	CD1	LEU	609	-3.088	15.960	-6.411	1.00	14.19
ATOM	4052	CD2	LEU	609	-2.161	16.731	-9.112	1.00	14.84
ATOM	4053	C	LEU	609	-5.174	15.712	-8.434	1.00	14.33
ATOM	4054	O	LEU	609	-6.549	15.843	-9.731	1.00	14.80
ATOM	4055	N	GLN	610	-4.122	20.121	-7.737	1.00	16.21
ATOM	4056	CA	GLN	610	-7.454	20.714	-7.683	1.00	14.75
ATOM	4057	CB	GLN	610	-7.610	21.601	-6.431	1.00	22.10
ATOM	4058	CG	GLN	610	-9.015	22.119	-6.142	1.00	23.61
ATOM	4059	CD	GLN	610	-10.087	21.970	-6.666	1.00	25.18
ATOM	4060	OE1	GLN	610	-10.864	20.862	-7.700	1.00	25.07
ATOM	4061	NE2	GLN	610	-10.135	20.730	-4.100	1.00	23.46
ATOM	4062	C	GLN	610	-7.696	21.764	-8.961	1.00	19.46
ATOM	4063	O	GLN	610	-8.674	21.739	-9.861	1.00	29.35
ATOM	4064	N	LYS	611	-6.518	22.130	-9.330	1.00	17.95
ATOM	4065	CA	LYS	611	-6.827	22.701	-10.731	1.00	19.00
ATOM	4066	CB	LYS	611	-5.237	21.739	-10.694	1.00	19.60
ATOM	4067	CG	LYS	611	-8.135	24.862	-11.460	1.00	26.12
ATOM	4068	CH	LYS	611	-3.829	25.732	-11.731	1.00	30.05
ATOM	4069	CI	LYS	611	-4.051	25.612	-10.441	1.00	33.03
ATOM	4070	NC	LYS	611	-0.952	25.816	-10.880	1.00	34.49
ATOM	4071	C	LYS	611	-6.684	25.719	-11.811	1.00	18.47
ATOM	4072	O	LYS	611	-7.438	25.712	-12.743	1.00	17.92
ATOM	4073	N	TYR	612	-5.969	21.421	-11.453	1.00	17.42
ATOM	4074	CA	TYR	612	-6.069	20.931	-12.324	1.00	17.14
ATOM	4075	CB	TYR	612	-5.137	19.871	-12.753	1.00	18.32
ATOM	4076	CG	TYR	612	-3.674	19.161	-13.900	1.00	20.39
ATOM	4077	CD1	TYR	612	-2.672	18.314	-12.563	1.00	20.70
ATOM	4078	CE1	TYR	612	-1.325	18.531	-13.810	1.00	22.32
ATOM	4079	CD2	TYR	612	-3.292	20.435	-13.636	1.00	20.10
ATOM	4080	CE2	TYR	612	-1.952	20.618	-11.911	1.00	22.45
ATOM	4081	CZ	TYR	612	-0.978	19.743	-13.593	1.00	20.89
ATOM	4082	OH	TYR	612	0.343	21.024	-10.731	1.00	24.40
ATOM	4083	C	TYR	612	-7.501	18.956	-13.165	1.00	16.86
ATOM	4084	O	TYR	612	-7.342	18.363	-14.235	1.00	17.38
ATOM	4085	N	LYS	613	-8.233	19.873	-11.063	1.00	16.32
ATOM	4086	CA	LYS	613	-9.613	18.935	-10.190	1.00	15.38
ATOM	4087	CB	LYS	613	-10.229	18.673	-10.321	1.00	14.76
ATOM	4088	CG	LYS	613	-11.682	18.113	-10.323	1.00	17.16
ATOM	4089	CD	LYS	613	-12.164	17.334	-9.723	1.00	17.39
ATOM	4090	CE	LYS	613	-13.620	16.356	-9.321	1.00	18.41
ATOM	4091	NZ	LYS	613	-14.048	15.350	-8.988	1.00	17.77
ATOM	4092	O	LYS	613	-10.422	20.933	-11.869	1.00	18.11
ATOM	4093	C	LYS	613	-11.313	19.786	-13.676	1.00	16.71
ATOM	4094	N	GLN	614	-10.087	21.285	-13.523	1.00	17.46
ATOM	4095	CA	GLN	614	-10.716	22.457	-12.093	1.00	18.69
ATOM	4096	CB	GLN	614	-10.667	23.740	-12.556	1.00	21.10
ATOM	4097	CG	GLN	614	-10.672	24.863	-11.039	1.00	20.74
ATOM	4098	CD	GLN	614	-9.984	24.391	-10.574	1.00	25.26
ATOM	4099	OE1	GLN	614	-8.739	25.225	-11.331	1.00	25.90
ATOM	4100	NE2	GLN	614	-8.645	24.216	-9.115	1.00	23.37
ATOM	4101	C	GLN	614	-1.584	22.416	-14.613	1.00	15.17
ATOM	4102	O	GLN	614	-11.415	21.671	-15.390	1.00	16.11
ATOM	4103	N	GLU	615	-8.314	22.085	-15.016	1.00	16.34
ATOM	4104	CA	GLU	615	-8.945	21.027	-16.426	1.00	16.23
ATOM	4105	CB	GLU	615	-9.451	22.231	-16.557	1.00	16.41
ATOM	4106	CG	GLU	615	-9.071	23.615	-15.899	1.00	16.28
ATOM	4107	CD	GLU	615	-9.579	23.851	-15.792	1.00	16.90
ATOM	4108	CE1	GLU	615	-10.813	22.981	-16.022	1.00	22.20
ATOM	4109	CE2	GLU	615	-9.150	24.981	-15.478	1.00	17.69

ATOM	4110	C	GLU	615	-9.277	20.707	-17.115	1.00	16.72
ATOM	4111	O	GLU	615	-9.025	20.543	-18.310	1.00	16.29
ATOM	4112	N	LYS	616	-9.869	19.778	-16.371	1.00	17.52
ATOM	4113	CA	LYS	616	-10.210	18.460	-16.915	1.00	20.17
ATOM	4114	CB	LYS	616	-11.254	18.567	-18.077	1.00	23.07
ATOM	4115	CG	LYS	616	-12.604	19.120	-17.686	1.00	29.30
ATOM	4116	CD	LYS	616	-13.410	18.131	-16.789	1.00	32.57
ATOM	4117	CE	LYS	616	-14.817	18.660	-16.536	1.00	33.31
ATOM	4118	NZ	LYS	616	-15.508	18.981	-17.807	1.00	38.09
ATOM	4119	C	LYS	616	-8.950	17.815	-17.475	1.00	21.06
ATOM	4120	O	LYS	616	-8.993	17.018	-18.415	1.00	21.94
ATOM	4121	N	LYS	617	-7.818	18.138	-16.844	1.00	18.27
ATOM	4122	CA	LYS	617	-6.557	17.569	-17.238	1.00	17.56
ATOM	4123	CB	LYS	617	-5.427	18.591	-17.132	1.00	20.70
ATOM	4124	CG	LYS	617	-4.111	18.075	-17.716	1.00	23.47
ATOM	4125	CD	LYS	617	-2.959	18.859	-17.311	1.00	27.46
ATOM	4126	CE	LYS	617	-3.104	20.376	-17.647	1.00	28.51
ATOM	4127	NZ	LYS	617	-2.144	21.290	-17.160	1.00	31.10
ATOM	4128	C	LYS	617	-6.266	18.275	-16.216	1.00	16.64
ATOM	4129	O	LYS	617	-5.871	18.115	-15.242	1.00	14.57
ATOM	4130	N	ARG	618	-8.533	18.180	-16.910	1.00	16.67
ATOM	4131	CA	ARG	618	-8.320	17.912	-16.149	1.00	14.83
ATOM	4132	CB	ARG	618	-6.913	17.773	-16.911	1.00	15.62
ATOM	4133	CG	ARG	618	-5.433	17.769	-16.831	1.00	18.58
ATOM	4134	CD	ARG	618	-9.053	17.769	-17.881	1.00	23.31
ATOM	4135	NE	ARG	618	-8.923	17.211	-19.237	1.00	26.35
ATOM	4136	CZ	ARG	618	-9.601	17.769	-20.133	1.00	27.82
ATOM	4137	NH1	ARG	618	-10.453	18.716	-20.080	1.00	27.55
ATOM	4138	NH2	ARG	618	-9.421	18.101	-21.410	1.00	25.16
ATOM	4139	C	ARG	618	-4.833	17.767	-15.865	1.00	15.48
ATOM	4140	O	ARG	618	-3.993	18.103	-16.738	1.00	16.70
ATOM	4141	N	PRO	619	-4.513	18.412	-14.619	1.00	14.70
ATOM	4142	CA	PRO	619	-3.131	17.710	-14.713	1.00	13.83
ATOM	4143	CB	PRO	619	-2.797	17.341	-13.118	1.00	14.36
ATOM	4144	CG	PRO	619	-1.682	14.210	-11.911	1.00	15.87
ATOM	4145	CD1	PRO	619	-3.411	18.311	-10.874	1.00	14.35
ATOM	4146	CD2	PRO	619	-4.813	17.710	-11.875	1.00	17.83
ATOM	4147	CE1	PRO	619	-4.244	18.314	-9.778	1.00	14.31
ATOM	4148	CE2	PRO	619	-5.657	17.012	-10.764	1.00	17.37
ATOM	4149	CZ	PRO	619	-5.370	14.111	-9.711	1.00	15.64
ATOM	4150	O	PRO	619	-2.815	11.816	-13.671	1.00	15.10
ATOM	4151	O	PRO	619	-3.660	11.278	-13.011	1.00	14.35
ATOM	4152	N	ALA	620	-1.585	11.451	-13.903	1.00	13.79
ATOM	4153	CA	ALA	620	-1.144	10.144	-13.440	1.00	14.57
ATOM	4154	CB	ALA	620	-0.185	8.579	-14.460	1.00	14.31
ATOM	4155	C	ALA	620	-0.482	10.144	-11.057	1.00	14.38
ATOM	4156	O	ALA	620	0.143	11.115	-11.697	1.00	13.39
ATOM	4157	N	THR	621	-0.646	8.196	-11.322	1.00	12.37
ATOM	4158	CA	THR	621	-0.073	8.962	-9.914	1.00	14.62
ATOM	4159	CB	THR	621	-1.145	8.115	-8.912	1.00	16.68
ATOM	4160	CG1	THR	621	-1.650	10.412	-8.912	1.00	21.56
ATOM	4161	CG2	THR	621	-0.567	8.913	-7.560	1.00	25.02
ATOM	4162	C	THR	621	0.457	7.513	-9.315	1.00	15.44
ATOM	4163	O	THR	621	-0.023	8.818	-10.643	1.00	15.17
ATOM	4164	N	ILE	622	1.428	7.216	-8.919	1.00	14.11
ATOM	4165	CA	ILE	622	1.934	3.958	-8.219	1.00	14.52
ATOM	4166	CB	ILE	622	3.165	3.815	-8.943	1.00	16.11
ATOM	4167	CG2	ILE	622	4.372	6.610	-8.415	1.00	19.85
ATOM	4168	CG1	ILE	622	3.500	4.312	-10.204	1.00	19.83
ATOM	4169	CD1	ILE	622	4.448	4.118	-11.317	1.00	22.61
ATOM	4170	C	ILE	622	2.443	5.606	-7.510	1.00	13.66
ATOM	4171	O	ILE	622	2.594	6.411	-8.715	1.00	12.31
ATOM	4172	N	THR	623	2.611	4.317	-7.215	1.00	15.34
ATOM	4173	CA	THR	623	3.080	3.914	-5.919	1.00	16.08
ATOM	4174	CB	THR	623	2.611	2.411	-5.515	1.00	16.42
ATOM	4175	CG1	THR	623	3.187	1.510	-6.414	1.00	19.41
ATOM	4176	CG2	THR	623	1.950	2.310	-5.616	1.00	19.47
ATOM	4177	C	THR	623	4.602	1.910	-6.013	1.00	14.73
ATOM	4178	O	THR	623	5.163	3.719	-7.110	1.00	14.60
ATOM	4179	N	ALA	624	1.260	4.010	-4.213	1.00	14.31
ATOM	4180	CA	ALA	624	1.719	4.014	-4.616	1.00	14.01
ATOM	4181	CB	ALA	624	2.381	5.118	-5.117	1.00	15.11
ATOM	4182	C	ALA	624	2.081	3.610	-3.314	1.00	14.67
ATOM	4183	O	ALA	624	3.417	4.115	-2.412	1.00	14.67
ATOM	4184	N	TYP	625	8.121	2.885	-3.186	1.00	14.94
ATOM	4185	CA	TYP	625	8.104	3.521	-1.810	1.00	13.13
ATOM	4186	CB	TYP	625	7.451	1.111	-1.418	1.00	13.13

ATOM	4187	CG	TYR	625	6.658	0.790	-2.089	1.00	11.16
ATOM	4188	CD1	TYR	625	6.587	0.065	-3.277	1.00	13.08
ATOM	4189	CE1	TYR	625	5.367	-0.252	-3.852	1.00	12.70
ATOM	4190	CD2	TYR	625	5.467	1.199	-1.488	1.00	11.45
ATOM	4191	CE2	TYR	625	4.224	0.886	-2.057	1.00	11.45
ATOM	4191	CZ	TYR	625	4.224	0.151	-3.141	1.00	11.70
ATOM	4191	OH	TYR	625	2.983	-0.200	-3.795	1.00	13.17
ATOM	4194	O	TYR	625	9.989	2.555	-3.624	1.00	14.79
ATOM	4195	O	TYR	625	10.500	2.009	-0.640	1.00	12.38
ATOM	4196	N	ASN	626	10.711	3.177	-2.549	1.00	14.45
ATOM	4197	CA	ASN	626	12.166	3.267	-2.410	1.00	16.17
ATOM	4198	CB	ASN	626	12.877	1.949	-2.861	1.00	18.23
ATOM	4199	CG	ASN	626	12.711	1.703	-4.362	1.00	19.53
ATOM	4200	OD1	ASN	626	13.387	2.419	-5.136	1.00	19.59
ATOM	4201	OD2	ASN	626	11.964	0.794	-4.764	1.00	21.03
ATOM	4202	C	ASN	626	12.744	4.454	-3.159	1.00	16.01
ATOM	4203	O	ASN	626	12.081	5.068	-4.019	1.00	15.86
ATOM	4204	N	THR	627	13.989	4.771	-2.816	1.00	15.06
ATOM	4205	CA	THR	627	14.665	5.886	-3.419	1.00	15.14
ATOM	4206	CB	THR	627	16.078	6.819	-1.735	1.00	16.61
ATOM	4207	CG	THR	627	14.881	5.887	-3.448	1.00	17.51
ATOM	4208	CD1	THR	627	17.015	8.131	-1.089	1.00	17.88
ATOM	4209	CE1	THR	627	17.871	9.237	-1.714	1.00	18.86
ATOM	4210	CD2	THR	627	17.871	6.581	-4.441	1.00	18.61
ATOM	4211	CE2	THR	627	18.774	7.443	-5.107	1.00	20.28
ATOM	4212	CZ	THR	627	18.774	8.787	-4.782	1.00	21.09
ATOM	4213	OH	THR	627	19.614	9.611	-3.510	1.00	22.89
ATOM	4214	O	THR	627	14.881	5.816	-4.919	1.00	15.86
ATOM	4215	O	THR	627	14.881	6.777	-3.813	1.00	15.39
ATOM	4217	N	SER	628	15.703	4.617	-3.417	1.00	15.60
ATOM	4217	CA	SER	628	15.563	4.584	-3.842	1.00	16.14
ATOM	4218	CB	SER	628	16.196	3.139	-3.112	1.00	16.61
ATOM	4219	OG	SER	628	17.466	3.068	-3.471	1.00	18.25
ATOM	4220	O	SER	628	14.587	4.725	-2.746	1.00	16.63
ATOM	4221	O	SER	628	14.448	5.510	-3.711	1.00	14.60
ATOM	4223	N	PHE	629	13.114	4.131	-3.461	1.00	16.19
ATOM	4223	CA	PHE	629	12.889	4.316	-3.817	1.00	15.56
ATOM	4224	CB	PHE	629	11.011	3.113	-3.169	1.00	15.89
ATOM	4225	CG	PHE	629	12.175	1.934	-3.769	1.00	16.27
ATOM	4226	CD1	PHE	629	12.012	0.910	-3.108	1.00	15.87
ATOM	4227	CD2	PHE	629	11.633	1.774	-10.118	1.00	14.97
ATOM	4228	CE1	PHE	629	12.381	-0.261	-3.711	1.00	16.45
ATOM	4229	CE2	PHE	629	11.581	0.631	-1.812	1.00	15.51
ATOM	4230	CZ	PHE	629	12.656	-0.410	-1.117	1.00	15.52
ATOM	4231	O	PHE	629	11.516	5.711	-3.181	1.00	15.42
ATOM	4232	O	PHE	629	11.249	6.362	-3.110	1.00	14.31
ATOM	4233	N	ALA	630	11.519	6.219	-3.800	1.00	14.96
ATOM	4234	CA	ALA	630	10.909	3.564	-3.554	1.00	13.98
ATOM	4235	CB	ALA	630	11.088	3.872	-3.163	1.00	15.22
ATOM	4236	C	ALA	630	11.800	8.545	-1.347	1.00	14.75
ATOM	4237	O	ALA	630	11.240	9.526	-3.174	1.00	14.71
ATOM	4238	N	LYS	631	13.113	8.499	-3.167	1.00	15.76
ATOM	4239	CA	LYS	631	14.911	9.312	-3.193	1.00	17.34
ATOM	4240	CB	LYS	631	15.465	8.833	-3.433	1.00	17.65
ATOM	4241	CG	LYS	631	16.513	9.657	-3.106	1.00	23.27
ATOM	4242	CD	LYS	631	16.611	11.105	-3.134	1.00	26.41
ATOM	4243	CE	LYS	631	15.967	11.317	-3.609	1.00	20.34
ATOM	4244	NZ	LYS	631	18.234	11.874	-1.516	1.00	29.72
ATOM	4245	O	LYS	631	13.793	9.244	-3.689	1.00	16.69
ATOM	4246	O	LYS	631	13.808	10.368	-3.135	1.00	17.77
ATOM	4247	N	LEU	632	13.527	9.128	-1.133	1.00	16.74
ATOM	4248	CA	LEU	632	13.234	3.728	-1.566	1.00	15.84
ATOM	4249	CB	LEU	632	13.123	6.334	-1.916	1.00	15.25
ATOM	4250	CG	LEU	632	13.119	3.818	-1.330	1.00	14.76
ATOM	4251	CD1	LEU	632	13.549	4.436	-1.842	1.00	15.45
ATOM	4252	CD2	LEU	632	11.879	6.061	-1.934	1.00	14.14
ATOM	4253	O	LEU	632	11.909	4.593	-1.967	1.00	14.72
ATOM	4254	O	LEU	632	11.844	9.153	-1.035	1.00	14.82
ATOM	4255	N	PHE	633	10.872	3.533	-1.177	1.00	14.97
ATOM	4256	CA	PHE	633	9.581	3.941	-1.477	1.00	14.44
ATOM	4257	CB	PHE	633	8.447	3.463	-1.343	1.00	14.11
ATOM	4258	CG	PHE	633	8.333	6.953	-1.425	1.00	17.11
ATOM	4259	CH1	PHE	633	8.582	8.156	-1.543	1.00	18.77
ATOM	4260	CH2	PHE	633	7.941	8.350	-9.240	1.00	14.31
ATOM	4261	CE1	PHE	633	8.346	4.763	-1.148	1.00	17.53
ATOM	4262	CE2	PHE	633	7.779	4.963	-9.147	1.00	14.83
ATOM	4263	CH	PHE	633	7.974	4.171	-10.191	1.00	16.83

ATOM	4264	C	PHE	633	9.683	10.464	-11.469	1.00	19.16
ATOM	4265	O	PHE	633	9.128	11.173	-12.251	1.00	20.23
ATOM	4266	N	ALA	634	10.390	10.964	-10.472	1.00	18.95
ATOM	4267	CA	ALA	634	10.661	12.402	-10.225	1.00	20.80
ATOM	4268	CB	ALA	634	11.615	12.697	-8.641	1.00	22.90
ATOM	4269	C	ALA	634	11.614	12.996	-11.437	1.00	21.47
ATOM	4270	O	ALA	634	10.670	14.033	-11.963	1.00	21.11
ATOM	4271	N	ASP	635	12.639	12.226	-11.891	1.00	21.14
ATOM	4272	CA	ASP	635	13.113	12.732	-13.650	1.00	23.15
ATOM	4273	CB	ASP	635	14.666	11.943	-13.743	1.00	24.34
ATOM	4274	CG	ASP	635	15.688	12.132	-12.141	1.00	24.30
ATOM	4275	OD1	ASP	635	15.642	13.015	-11.990	1.00	27.37
ATOM	4276	OD2	ASP	635	16.649	11.311	-12.117	1.00	26.11
ATOM	4277	C	ASP	635	12.619	12.844	-14.578	1.00	23.85
ATOM	4278	O	ASP	635	12.662	13.606	-15.041	1.00	23.45
ATOM	4279	N	GLU	636	11.659	12.634	-14.433	1.00	22.71
ATOM	4280	CA	GLU	636	10.432	11.836	-15.000	1.00	22.48
ATOM	4281	CB	GLU	636	9.671	10.655	-15.880	1.00	22.30
ATOM	4282	CG	GLU	636	11.687	9.793	-16.753	1.00	24.66
ATOM	4283	CD	GLU	636	11.453	10.634	-17.330	1.00	25.38
ATOM	4284	OE1	GLU	636	11.136	10.610	-18.777	1.00	28.64
ATOM	4285	OE2	GLU	636	13.137	10.146	-17.950	1.00	26.19
ATOM	4286	C	GLU	636	9.107	12.679	-15.663	1.00	21.66
ATOM	4287	O	GLU	636	8.437	12.635	-16.718	1.00	22.61
ATOM	4288	N	GLY	637	8.639	12.435	-14.663	1.00	20.53
ATOM	4289	CA	GLY	637	7.739	14.618	-14.613	1.00	20.79
ATOM	4290	C	GLY	637	6.590	11.731	-12.471	1.00	21.60
ATOM	4291	O	GLY	637	5.632	14.441	-12.613	1.00	22.37
ATOM	4292	N	LEU	638	6.680	12.711	-11.660	1.00	21.30
ATOM	4293	CA	LEU	638	5.699	11.631	-12.703	1.00	22.31
ATOM	4294	CB	LEU	638	5.683	10.661	-12.661	1.00	23.81
ATOM	4295	CG	LEU	638	4.426	9.629	-12.704	1.00	26.98
ATOM	4296	CD1	LEU	638	4.678	8.132	-11.773	1.00	25.12
ATOM	4297	CND	LEU	638	3.241	9.488	-12.773	1.00	27.34
ATOM	4298	C	LEU	638	5.676	12.431	-10.677	1.00	20.11
ATOM	4299	O	LEU	638	6.683	12.731	-10.674	1.00	22.26
ATOM	4300	N	ASN	639	5.102	11.437	-10.469	1.00	20.33
ATOM	4301	CA	ASN	639	5.115	14.015	-9.115	1.00	18.91
ATOM	4302	CB	ASN	639	5.157	13.660	-9.164	1.00	24.25
ATOM	4303	CG	ASN	639	6.371	13.943	-10.677	1.00	28.34
ATOM	4304	OD1	ASN	639	7.684	15.116	-10.661	1.00	31.74
ATOM	4305	ND2	ASN	639	6.197	16.431	-11.194	1.00	31.52
ATOM	4306	C	ASN	639	4.348	13.747	-4.674	1.00	17.63
ATOM	4307	O	ASN	639	4.240	14.470	-7.661	1.00	16.23
ATOM	4308	N	VAL	640	3.547	11.711	-3.065	1.00	16.41
ATOM	4309	CA	VAL	640	2.514	12.366	-3.149	1.00	15.96
ATOM	4310	CB	VAL	640	1.101	12.690	-3.640	1.00	16.39
ATOM	4311	CG1	VAL	640	0.083	10.303	-3.687	1.00	18.52
ATOM	4312	CG2	VAL	640	0.917	14.056	-3.634	1.00	18.53
ATOM	4313	C	VAL	640	2.712	10.896	-3.683	1.00	15.29
ATOM	4314	O	VAL	640	2.445	10.836	-3.611	1.00	11.74
ATOM	4315	N	MET	641	3.190	10.813	-3.684	1.00	13.95
ATOM	4316	CA	MET	641	3.477	8.252	-3.682	1.00	14.10
ATOM	4317	CB	MET	641	4.383	3.352	-3.687	1.00	14.00
ATOM	4318	CG	MET	641	5.723	9.342	-3.646	1.00	18.23
ATOM	4319	SD	MET	641	7.481	9.147	-3.640	1.00	18.97
ATOM	4320	CE	MET	641	8.619	10.137	-3.637	1.00	20.69
ATOM	4321	C	MET	641	2.813	8.627	-3.616	1.00	11.89
ATOM	4322	O	MET	641	2.504	9.839	-3.617	1.00	16.15
ATOM	4323	N	LEU	642	2.403	7.569	-3.641	1.00	1.59
ATOM	4324	CA	LEU	642	3.243	7.645	-2.665	1.00	15.28
ATOM	4325	CB	LEU	642	3.130	6.602	-3.617	1.00	15.13
ATOM	4326	CG	LEU	642	-0.652	5.654	-2.676	1.00	2.46
ATOM	4327	CD1	LEU	642	-0.395	4.474	-2.638	1.00	21.41
ATOM	4328	CD2	LEU	642	-0.553	6.576	-0.641	1.00	21.80
ATOM	4329	C	LEU	642	2.533	5.908	-2.270	1.00	14.23
ATOM	4330	O	LEU	642	2.920	4.947	-2.668	1.00	15.25
ATOM	4331	N	VAL	643	2.782	6.153	-0.903	1.00	14.09
ATOM	4332	CA	VAL	643	3.478	5.637	-0.155	1.00	14.71
ATOM	4333	CB	VAL	643	4.689	5.668	0.917	1.00	14.65
ATOM	4334	CG1	VAL	643	5.181	4.676	1.837	1.00	14.25
ATOM	4335	CG2	VAL	643	2.351	6.663	0.261	1.00	2.05
ATOM	4336	C	VAL	643	2.327	4.197	0.508	1.00	14.14
ATOM	4337	O	VAL	643	1.931	4.624	1.623	1.00	14.03
ATOM	4338	N	GLY	644	1.784	3.613	-0.209	1.00	14.13
ATOM	4339	CA	GLY	644	0.648	2.585	-0.268	1.00	14.89
ATOM	4340	C	GLY	644	0.948	1.249	-0.963	1.00	14.33

ATOM	4341	O	GLY	644	2.038	0.698	0.802	1.00	15.86
ATOM	4342	N	ASP	645	-0.600	1.735	1.717	1.00	15.60
ATOM	4343	CA	ASP	645	0.100	-0.529	2.411	1.00	16.74
ATOM	4344	CB	ASP	645	-0.647	-0.755	3.521	1.00	15.19
ATOM	4345	CG	ASP	645	-2.268	-0.790	3.017	1.00	16.47
ATOM	4346	OD1	ASP	645	-2.449	-0.772	1.794	1.00	12.97
ATOM	4347	OD2	ASP	645	-3.178	-1.643	2.875	1.00	16.97
ATOM	4348	C	ASP	645	0.288	-1.703	1.446	1.00	15.61
ATOM	4349	O	ASP	645	0.486	-2.856	2.860	1.00	18.52
ATOM	4350	N	SER	646	0.169	-1.739	0.151	1.00	14.45
ATOM	4351	CA	SER	646	0.281	-2.435	-0.879	1.00	12.93
ATOM	4352	CB	SER	646	0.041	-1.871	-1.266	1.00	14.70
ATOM	4353	OG	SER	646	0.913	-0.776	-2.478	1.00	16.74
ATOM	4354	C	SER	646	1.645	-2.994	-0.891	1.00	13.99
ATOM	4355	O	SER	646	1.969	-4.085	-1.338	1.00	15.91
ATOM	4356	N	LEU	647	2.598	-2.248	-0.170	1.00	11.93
ATOM	4357	CA	LEU	647	3.977	-2.702	-0.041	1.00	12.24
ATOM	4358	CB	LEU	647	4.838	-1.549	0.601	1.00	12.62
ATOM	4359	CG	LEU	647	4.141	-2.162	2.038	1.00	13.54
ATOM	4360	CD1	LEU	647	5.211	-2.120	3.036	1.00	19.64
ATOM	4361	CD2	LEU	647	5.937	-0.764	2.215	1.00	14.43
ATOM	4362	C	LEU	647	4.116	-3.775	1.818	1.00	13.63
ATOM	4363	O	LEU	647	4.783	-4.728	0.765	1.00	13.68
ATOM	4364	N	GLY	648	2.754	-4.716	1.536	1.00	12.76
ATOM	4365	CA	GLY	648	2.613	-5.410	1.417	1.00	12.76
ATOM	4366	C	GLY	648	2.341	-5.564	1.554	1.00	13.32
ATOM	4367	O	GLY	648	3.185	-7.720	1.977	1.00	12.84
ATOM	4368	N	MET	649	2.476	-6.110	0.328	1.00	13.40
ATOM	4369	CA	MET	649	2.464	-7.715	-0.611	1.00	13.40
ATOM	4370	CB	MET	649	1.283	-7.772	-1.337	1.00	15.15
ATOM	4371	CG	MET	649	-0.130	-7.770	-0.326	1.00	19.61
ATOM	4372	SD	MET	649	-1.743	-7.781	-1.021	1.00	23.37
ATOM	4373	CE	MET	649	-1.676	-9.760	-2.275	1.00	19.10
ATOM	4374	C	MET	649	3.560	-7.447	-1.631	1.00	14.12
ATOM	4375	O	MET	649	4.111	-8.418	-1.802	1.00	13.45
ATOM	4376	N	THR	650	3.777	-6.763	-2.290	1.00	12.15
ATOM	4377	CA	THR	650	4.717	-6.716	-3.303	1.00	13.32
ATOM	4378	CB	THR	650	4.416	-9.715	-1.221	1.00	15.37
ATOM	4379	CG1	THR	650	4.196	-3.771	-3.475	1.00	21.11
ATOM	4380	CG2	THR	650	3.111	-5.143	-4.785	1.00	15.40
ATOM	4381	C	THR	650	6.144	-6.135	-2.976	1.00	12.32
ATOM	4382	O	THR	650	7.339	-6.965	-3.445	1.00	11.37
ATOM	4383	N	VAL	651	6.111	-5.535	-1.576	1.00	11.93
ATOM	4384	CA	VAL	651	7.647	-5.477	-0.996	1.00	12.45
ATOM	4385	CB	VAL	651	7.841	-4.579	-0.353	1.00	12.18
ATOM	4386	CG1	VAL	651	9.211	-3.533	0.316	1.00	13.43
ATOM	4387	CG2	VAL	651	7.911	-5.395	-1.423	1.00	10.42
ATOM	4388	C	VAL	651	7.395	-6.857	0.257	1.00	11.83
ATOM	4389	O	VAL	651	8.658	-7.716	-0.035	1.00	12.12
ATOM	4390	N	GLN	652	7.817	-6.640	1.043	1.00	12.39
ATOM	4391	CA	GLN	652	7.704	-7.715	2.123	1.00	13.70
ATOM	4392	CB	GLN	652	7.137	-7.177	2.150	1.00	13.30
ATOM	4393	CG	GLN	652	6.796	-5.783	3.618	1.00	13.66
ATOM	4394	CD	GLN	652	6.704	-5.762	5.028	1.00	11.73
ATOM	4395	OE1	GLN	652	4.777	-5.762	5.140	1.00	14.17
ATOM	4396	NE2	GLN	652	6.464	-4.719	5.713	1.00	19.59
ATOM	4397	C	GLN	652	6.747	-9.753	1.770	1.00	17.12
ATOM	4398	O	GLN	652	8.756	-9.762	2.388	1.00	14.11
ATOM	4399	N	GLY	653	7.745	-9.739	0.799	1.00	11.46
ATOM	4400	CA	GLY	653	7.795	-10.790	0.408	1.00	13.75
ATOM	4401	C	GLY	653	4.404	-11.744	1.193	1.00	13.96
ATOM	4402	O	GLY	653	4.223	-12.163	1.144	1.00	13.96
ATOM	4403	N	GLY	654	3.693	-12.161	1.724	1.00	13.76
ATOM	4404	CA	HIS	654	2.573	-11.705	2.876	1.00	13.41
ATOM	4405	CB	HIS	654	2.150	-10.752	3.762	1.00	13.99
ATOM	4406	CG	HIS	654	3.151	-9.757	4.344	1.00	17.16
ATOM	4407	CD2	HIS	654	5.813	-8.750	5.285	1.00	12.41
ATOM	4408	NE1	HIS	654	3.677	-10.792	5.614	1.00	13.54
ATOM	4409	OE1	HIS	654	4.771	-10.821	6.463	1.00	17.70
ATOM	4410	NE2	HIS	654	4.693	-9.712	6.202	1.00	16.36
ATOM	4411	C	HIS	654	1.317	-11.742	1.745	1.00	13.82
ATOM	4412	O	HIS	654	1.343	-10.723	0.771	1.00	15.31
ATOM	4413	N	ASN	655	0.410	-12.734	2.216	1.00	19.49
ATOM	4414	CA	ASN	655	-0.769	-12.574	1.476	1.00	20.72
ATOM	4415	CB	ASN	655	-1.406	-13.663	1.978	1.00	25.65
ATOM	4416	CG	ASN	655	-2.228	-13.107	3.273	1.00	19.75
ATOM	4417	CD1	ASN	655	-3.374	-12.879	4.137	1.00	36.14

ATOM	4418	OD2	ASP	655	-1.789	-13.825	4.330	1.00	34.78
ATOM	4419	C	ASP	655	-1.815	-11.253	1.458	1.00	19.20
ATOM	4420	O	ASP	655	-2.805	-11.300	0.729	1.00	20.52
ATOM	4421	N	SEP	656	-1.410	-10.267	2.316	1.00	16.01
ATOM	4422	CA	SEP	656	-2.545	-9.143	2.400	1.00	14.62
ATOM	4423	CB	SEP	656	-3.657	-9.467	3.401	1.00	14.60
ATOM	4424	CG	SEP	656	-3.135	-8.307	4.751	1.00	13.62
ATOM	4425	C	SEP	656	-1.771	-7.040	2.890	1.00	11.97
ATOM	4426	O	SEP	656	-0.779	-8.001	3.168	1.00	11.43
ATOM	4427	N	THR	657	-2.447	-6.261	2.993	1.00	13.16
ATOM	4428	CA	THR	657	-1.801	-5.533	3.461	1.00	12.70
ATOM	4429	CB	THR	657	-2.435	-4.305	2.798	1.00	14.37
ATOM	4430	CG1	THR	657	-3.732	-4.183	3.240	1.00	14.29
ATOM	4431	CG2	THR	657	-2.421	-4.441	1.270	1.00	16.57
ATOM	4432	C	THR	657	-1.257	-3.394	4.980	1.00	12.71
ATOM	4433	O	THR	657	-1.148	-4.550	5.514	1.00	13.29
ATOM	4434	N	LEU	658	-2.171	-6.177	5.676	1.00	14.03
ATOM	4435	CA	LEU	658	-2.123	-6.012	7.136	1.00	13.77
ATOM	4436	CB	LEU	658	-3.730	-7.076	7.601	1.00	15.46
ATOM	4437	CG	LEU	658	-5.179	-6.806	7.473	1.00	17.50
ATOM	4438	CD1	LEU	658	-5.134	-7.140	6.012	1.00	21.01
ATOM	4439	CD2	LEU	658	-6.150	-7.114	6.372	1.00	18.51
ATOM	4440	C	LEU	658	-1.761	-5.651	8.203	1.00	12.69
ATOM	4441	O	LEU	658	-1.185	-5.150	8.807	1.00	12.58
ATOM	4442	N	PRO	659	-0.753	-6.333	7.511	1.00	14.90
ATOM	4443	CA	PRO	659	-0.781	-7.423	6.512	1.00	12.48
ATOM	4444	CB	PRO	659	0.163	-6.410	8.501	1.00	12.36
ATOM	4445	CG	PRO	659	1.125	-8.333	7.917	1.00	14.47
ATOM	4446	CG1	PRO	659	0.150	-8.175	6.573	1.00	21.34
ATOM	4447	C	PRO	659	1.140	-5.146	8.443	1.00	13.36
ATOM	4448	O	PRO	659	2.134	-5.165	9.273	1.00	14.53
ATOM	4449	N	VAL	660	1.171	-4.868	7.437	1.00	13.75
ATOM	4450	CA	VAL	660	2.031	-3.427	7.253	1.00	12.32
ATOM	4451	CB	VAL	660	1.113	-2.872	6.063	1.00	12.31
ATOM	4452	CG1	VAL	660	2.016	-1.118	5.933	1.00	13.70
ATOM	4453	CG2	VAL	660	1.162	-3.315	4.863	1.00	10.14
ATOM	4454	C	VAL	660	1.194	-2.356	8.583	1.00	13.42
ATOM	4455	O	VAL	660	0.142	-2.161	8.930	1.00	14.34
ATOM	4456	N	THR	661	2.172	-2.177	9.176	1.00	11.32
ATOM	4457	CA	THR	661	2.172	-1.101	10.357	1.00	15.36
ATOM	4458	CB	THR	661	3.195	-1.440	11.439	1.00	17.37
ATOM	4459	CG1	THR	661	3.140	-3.319	11.736	1.00	21.53
ATOM	4460	CG2	THR	661	3.169	-0.335	12.720	1.00	22.77
ATOM	4461	C	THR	661	3.151	0.113	9.998	1.00	14.14
ATOM	4462	O	THR	661	3.153	0.117	8.916	1.00	11.93
ATOM	4463	N	VAL	662	2.122	1.141	10.312	1.00	13.31
ATOM	4464	CA	VAL	662	2.169	2.160	10.712	1.00	15.63
ATOM	4465	CB	VAL	662	2.165	0.395	11.312	1.00	15.72
ATOM	4466	CG1	VAL	662	3.102	4.819	11.132	1.00	18.60
ATOM	4467	CG2	VAL	662	0.138	3.412	11.221	1.00	15.56
ATOM	4468	C	VAL	662	4.471	2.318	10.556	1.00	15.26
ATOM	4469	O	VAL	662	4.913	3.116	9.740	1.00	15.83
ATOM	4470	N	ALA	663	5.255	2.101	11.323	1.00	14.05
ATOM	4471	CA	ALA	663	6.707	2.100	11.216	1.00	14.62
ATOM	4472	CB	ALA	663	7.364	1.119	11.278	1.00	15.71
ATOM	4473	C	ALA	663	7.118	1.153	9.830	1.00	14.13
ATOM	4474	O	ALA	663	9.092	2.170	9.112	1.00	13.75
ATOM	4475	N	ASP	664	6.516	0.129	9.110	1.00	14.32
ATOM	4476	CA	ASP	664	6.916	0.154	7.849	1.00	13.17
ATOM	4477	CB	ASP	664	6.212	-0.886	7.117	1.00	13.69
ATOM	4478	CG	ASP	664	6.434	-2.115	8.100	1.00	11.91
ATOM	4479	CD1	ASP	664	7.525	-1.275	7.110	1.00	19.66
ATOM	4480	CD2	ASP	664	5.414	-1.935	8.117	1.00	14.65
ATOM	4481	C	ASP	664	6.650	1.434	6.615	1.00	12.45
ATOM	4482	O	ASP	664	7.472	1.836	6.017	1.00	10.45
ATOM	4483	N	ILE	665	5.454	1.067	7.015	1.00	11.41
ATOM	4484	CA	ILE	665	5.088	0.161	6.126	1.00	11.82
ATOM	4485	CB	ILE	665	5.680	3.717	6.419	1.00	13.42
ATOM	4486	CG1	ILE	665	3.466	4.942	5.556	1.00	14.44
ATOM	4487	CG2	ILE	665	2.631	3.945	6.162	1.00	11.09
ATOM	4488	CD1	ILE	665	2.482	3.250	4.704	1.00	14.31
ATOM	4489	C	ILE	665	6.097	4.209	6.243	1.00	12.95
ATOM	4490	O	ILE	665	6.547	4.845	5.123	1.00	12.47
ATOM	4491	N	ALA	666	6.453	4.643	7.481	1.00	13.58
ATOM	4492	CA	ALA	666	7.406	5.725	7.764	1.00	13.36
ATOM	4493	CB	ALA	666	7.528	5.929	9.279	1.00	13.14
ATOM	4494	C	ALA	666	6.788	5.418	7.117	1.00	13.44

ATOM	4495	O	ALA	666	9.435	6.386	6.656	1.00	11.50
ATOM	4496	N	THR	667	9.242	4.715	7.341	1.00	12.26
ATOM	4497	CA	THR	667	10.528	3.896	6.701	1.00	12.09
ATOM	4498	CB	THR	667	10.769	2.315	6.987	1.00	12.31
ATOM	4499	CG	THR	667	12.042	1.719	6.741	1.00	11.83
ATOM	4500	CD	THR	667	13.247	1.995	6.741	1.00	13.98
ATOM	4501	CE1	THR	667	14.412	1.421	6.275	1.00	14.36
ATOM	4502	CE2	THR	667	11.841	0.855	5.252	1.00	15.01
ATOM	4503	CE3	THR	667	13.021	0.130	4.673	1.00	13.37
ATOM	4504	CH	THR	667	14.286	0.168	5.189	1.00	15.02
ATOM	4505	OH	THR	667	15.414	0.011	4.611	1.00	14.89
ATOM	4506	C	TYR	667	10.556	4.653	5.194	1.00	11.91
ATOM	4507	O	TYR	667	11.443	4.713	4.672	1.00	9.26
ATOM	4508	N	HIS	668	9.545	3.711	4.499	1.00	12.01
ATOM	4509	CA	HIS	668	9.473	3.770	3.057	1.00	13.41
ATOM	4510	CB	HIS	668	3.423	2.713	2.486	1.00	12.37
ATOM	4511	CG	HIS	668	3.849	1.773	2.536	1.00	11.02
ATOM	4512	CD	HIS	668	8.557	0.131	3.442	1.00	11.45
ATOM	4513	ND1	HIS	668	9.774	0.746	1.543	1.00	13.13
ATOM	4514	CE1	HIS	668	10.038	-0.703	3.034	1.00	11.70
ATOM	4515	NE2	HIS	668	9.312	-0.701	3.031	1.00	11.70
ATOM	4516	C	HIS	668	9.153	5.117	2.032	1.00	14.60
ATOM	4517	O	HIS	668	3.641	5.113	1.833	1.00	14.48
ATOM	4518	N	THR	669	8.369	5.101	3.831	1.00	15.65
ATOM	4519	CA	THR	669	8.542	7.119	3.212	1.00	16.41
ATOM	4520	CB	THR	669	7.370	7.127	4.210	1.00	15.94
ATOM	4521	CG1	THR	669	5.787	7.120	4.113	1.00	15.96
ATOM	4522	CG2	THR	669	6.914	9.714	4.236	1.00	15.38
ATOM	4523	C	THR	669	9.113	8.146	3.117	1.00	15.41
ATOM	4524	O	THR	669	9.495	8.441	2.111	1.00	15.31
ATOM	4525	N	ALA	670	10.365	7.458	4.104	1.00	15.32
ATOM	4526	CA	ALA	670	11.458	5.418	4.151	1.00	14.41
ATOM	4527	CB	ALA	670	12.710	8.178	5.428	1.00	16.31
ATOM	4528	C	ALA	670	12.733	8.749	2.934	1.00	16.59
ATOM	4529	O	ALA	670	13.535	9.155	2.443	1.00	14.81
ATOM	4530	N	ALA	671	12.137	3.493	2.482	1.00	15.41
ATOM	4531	CA	ALA	671	13.141	6.413	1.327	1.00	15.41
ATOM	4532	CB	ALA	671	13.102	5.464	1.130	1.00	14.43
ATOM	4533	C	ALA	671	12.866	7.113	0.819	1.00	16.13
ATOM	4534	O	ALA	671	11.787	7.032	-0.734	1.00	14.32
ATOM	4535	N	VAL	672	11.785	7.183	-0.025	1.00	14.33
ATOM	4536	CA	VAL	672	10.677	8.101	-1.239	1.00	14.46
ATOM	4537	CB	VAL	672	9.148	7.134	-1.313	1.00	15.01
ATOM	4538	CG1	VAL	672	8.482	8.131	-2.311	1.00	15.50
ATOM	4539	CG2	VAL	672	8.841	6.373	-1.656	1.00	16.48
ATOM	4540	C	VAL	672	10.423	9.103	-1.310	1.00	14.16
ATOM	4541	O	VAL	672	11.141	10.103	-2.312	1.00	15.05
ATOM	4542	N	ARG	673	10.443	10.115	-0.185	1.00	13.51
ATOM	4543	CA	ARG	673	11.199	11.164	-0.310	1.00	15.06
ATOM	4544	CB	ARG	673	11.777	12.186	1.190	1.00	15.22
ATOM	4545	CG	ARG	673	11.453	13.180	1.170	1.00	16.26
ATOM	4546	CD	ARG	673	10.402	14.112	0.512	1.00	15.12
ATOM	4547	NE	ARG	673	9.407	14.539	0.809	1.00	16.62
ATOM	4548	CZ	ARG	673	7.983	15.053	0.001	1.00	17.11
ATOM	4549	NH1	ARG	673	3.361	15.518	-1.187	1.00	15.70
ATOM	4550	NH2	ARG	673	6.742	15.117	0.361	1.00	15.75
ATOM	4551	C	ARG	673	12.135	11.937	-0.334	1.00	16.65
ATOM	4552	O	ARG	673	12.764	12.958	-0.963	1.00	16.70
ATOM	4553	N	ARG	674	13.190	11.012	-0.650	1.00	15.23
ATOM	4554	CA	ARG	674	14.883	11.352	-0.394	1.00	17.55
ATOM	4555	CB	ARG	674	15.614	10.311	0.139	1.00	15.79
ATOM	4556	C	ARG	674	15.741	13.334	1.173	1.00	15.41
ATOM	4557	OH	ARG	674	16.444	9.589	2.137	1.00	14.60
ATOM	4558	NE	ARG	674	16.311	9.567	1.084	1.00	22.66
ATOM	4559	CZ	ARG	674	16.343	8.434	4.534	1.00	21.67
ATOM	4560	NH1	ARG	674	15.515	7.459	2.804	1.00	19.18
ATOM	4561	NH2	ARG	674	16.147	8.517	5.807	1.00	23.55
ATOM	4562	C	ARG	674	15.045	11.264	-1.977	1.00	16.31
ATOM	4563	O	ARG	674	15.865	11.978	-2.439	1.00	17.39
ATOM	4564	N	GLY	675	14.150	10.418	1.508	1.00	15.47
ATOM	4565	CA	GLY	675	14.378	10.121	-4.013	1.00	18.44
ATOM	4566	C	GLY	675	13.602	11.384	4.770	1.00	19.21
ATOM	4567	O	GLY	675	13.982	11.737	-5.835	1.00	17.51
ATOM	4568	N	ALA	676	12.548	11.917	-4.110	1.00	19.24
ATOM	4569	CA	ALA	676	11.737	12.969	-4.771	1.00	21.38
ATOM	4570	CB	ALA	676	10.511	13.447	-5.445	1.00	22.27
ATOM	4571	C	ALA	676	11.241	14.073	-6.131	1.00	21.87

ATOM	4572	O	ALA	676	10.160	13.970	-3.260	1.00	21.80
ATOM	4573	N	PRO	677	12.174	14.951	-3.376	1.00	23.81
ATOM	4574	CD	PRO	677	13.544	15.130	-3.688	1.00	24.44
ATOM	4575	CA	PRO	677	11.854	15.384	-2.584	1.00	24.40
ATOM	4576	CB	PRO	677	13.294	16.654	-2.140	1.00	24.08
ATOM	4577	CG	PRO	677	13.859	16.554	-3.459	1.00	25.08
ATOM	4578	C	PRO	677	10.774	16.689	-2.762	1.00	23.00
ATOM	4579	O	PRO	677	10.137	17.640	-1.891	1.00	25.85
ATOM	4580	N	ASN	678	10.436	17.114	-4.054	1.00	24.73
ATOM	4581	CA	ASN	678	9.483	18.057	-4.497	1.00	24.46
ATOM	4582	CB	ASN	678	9.934	18.492	-5.706	1.00	27.05
ATOM	4583	CG	ASN	678	11.266	19.634	-5.395	1.00	30.19
ATOM	4584	OD1	ASN	678	11.393	20.400	-4.430	1.00	31.07
ATOM	4585	ND2	ASN	678	12.291	19.443	-6.112	1.00	31.46
ATOM	4586	C	ASN	678	8.164	17.381	-4.845	1.00	22.42
ATOM	4587	O	ASN	678	7.206	18.356	-5.105	1.00	21.78
ATOM	4588	N	CYS	679	8.500	16.764	-4.731	1.00	21.77
ATOM	4589	CA	CYS	679	6.645	15.791	-5.080	1.00	20.72
ATOM	4590	CB	CYS	679	7.633	13.704	-5.028	1.00	22.77
ATOM	4591	SG	CYS	679	8.941	12.739	-3.763	1.00	21.45
ATOM	4592	C	CYS	679	3.761	15.749	-4.717	1.00	20.00
ATOM	4593	O	CYS	679	8.115	19.786	-3.071	1.00	26.40
ATOM	4594	N	LEU	680	11.517	15.736	-4.132	1.00	19.40
ATOM	4595	CA	LEU	680	11.330	15.763	-3.720	1.00	18.00
ATOM	4596	CB	LEU	680	11.674	15.639	-4.142	1.00	17.17
ATOM	4597	CG	LEU	680	11.817	15.797	-3.185	1.00	16.71
ATOM	4598	CD1	LEU	680	11.927	16.714	-2.164	1.00	17.74
ATOM	4599	CD2	LEU	680	-0.410	15.717	-4.111	1.00	16.75
ATOM	4600	C	LEU	680	11.314	13.717	-3.056	1.00	15.17
ATOM	4601	O	LEU	680	11.689	13.714	-3.446	1.00	17.45
ATOM	4602	N	LEU	681	11.653	13.639	-1.762	1.00	18.34
ATOM	4603	CA	LEU	681	11.734	12.716	-1.245	1.00	18.01
ATOM	4604	CB	LEU	681	11.654	12.192	-0.174	1.00	18.02
ATOM	4605	CG	LEU	681	11.111	10.834	-0.137	1.00	20.05
ATOM	4606	CD1	LEU	681	7.714	10.377	0.126	1.00	18.66
ATOM	4607	CD2	LEU	681	4.711	10.791	0.163	1.00	21.30
ATOM	4608	C	LEU	681	11.665	11.968	-0.353	1.00	16.69
ATOM	4609	O	LEU	681	11.854	13.862	0.701	1.00	16.16
ATOM	4610	N	LEU	682	11.702	10.374	-0.790	1.00	16.00
ATOM	4611	CA	LEU	682	11.777	10.491	-0.067	1.00	17.13
ATOM	4612	CB	LEU	682	-0.129	10.151	-0.900	1.00	18.79
ATOM	4613	CG	LEU	682	-1.449	11.151	-1.333	1.00	22.69
ATOM	4614	CD1	LEU	682	-1.700	12.173	-0.227	1.00	23.30
ATOM	4615	CD2	LEU	682	-1.641	10.700	-2.070	1.00	23.40
ATOM	4616	C	LEU	682	1.156	9.233	0.690	1.00	16.92
ATOM	4617	O	LEU	682	1.470	8.430	0.098	1.00	18.52
ATOM	4618	N	ALA	683	11.003	9.074	1.957	1.00	14.59
ATOM	4619	CA	ALA	683	11.195	7.869	2.682	1.00	14.34
ATOM	4620	CB	ALA	683	11.223	8.201	3.753	1.00	14.56
ATOM	4621	C	ALA	683	-0.749	7.160	3.303	1.00	13.19
ATOM	4622	O	ALA	683	-0.893	7.967	1.857	1.00	12.69
ATOM	4623	N	ASP	684	-0.161	5.843	1.104	1.00	11.76
ATOM	4624	CA	ASP	684	-1.192	5.124	3.761	1.00	11.79
ATOM	4625	CB	ASP	684	-1.189	3.811	1.193	1.00	11.15
ATOM	4626	CG	ASP	684	-2.137	3.701	1.972	1.00	11.93
ATOM	4627	OD1	ASP	684	-2.783	4.647	0.660	1.00	11.43
ATOM	4628	OD2	ASP	684	-2.154	3.430	1.334	1.00	10.86
ATOM	4629	C	ASP	684	-1.192	5.100	0.356	1.00	14.01
ATOM	4630	O	ASP	684	-0.092	4.184	0.721	1.00	13.68
ATOM	4631	N	LEU	685	-2.139	5.116	1.758	1.00	11.34
ATOM	4632	CA	LEU	685	-2.135	4.319	0.353	1.00	11.73
ATOM	4633	CB	LEU	685	-3.400	5.078	3.118	1.00	11.73
ATOM	4634	CG	LEU	685	-3.114	7.006	3.558	1.00	18.70
ATOM	4635	CD1	LEU	685	-4.018	7.157	9.658	1.00	30.79
ATOM	4636	CD2	LEU	685	-1.670	7.106	9.913	1.00	35.52
ATOM	4637	C	LEU	685	-2.715	3.346	7.119	1.00	19.74
ATOM	4638	O	LEU	685	-3.721	3.332	6.111	1.00	14.61
ATOM	4639	N	PRO	686	-1.876	1.433	7.734	1.00	18.42
ATOM	4640	CA	PRO	686	-0.579	2.607	8.390	1.00	16.43
ATOM	4641	CB	PRO	686	-1.139	3.000	7.643	1.00	18.10
ATOM	4642	CG	PRO	686	-0.309	0.330	8.065	1.00	17.00
ATOM	4643	OG	PRO	686	-0.243	1.343	9.673	1.00	16.05
ATOM	4644	C	PRO	686	-1.327	0.429	8.458	1.00	18.41
ATOM	4645	O	PRO	686	-4.008	1.214	9.142	1.00	18.00
ATOM	4646	N	PHE	687	-3.503	-0.815	8.358	1.00	18.00
ATOM	4647	CA	PHE	687	-4.647	-1.474	9.162	1.00	11.44
ATOM	4648	CB	PHE	687	-4.147	-0.707	8.700	1.00	14.01

ATM	4649	CG	PHE	687	-5.265	-3.841	9.861	1.00	15.81
ATM	4650	CD1	PHE	687	-6.655	-3.762	9.905	1.00	16.16
ATM	4651	CD2	PHE	687	-4.619	-4.758	10.635	1.00	14.41
ATM	4652	CE1	PHE	687	-7.390	-4.595	10.771	1.00	16.59
ATM	4652	CE2	PHE	687	-5.337	-5.597	11.535	1.00	14.28
ATM	4654	CZ	PHE	687	-6.716	-5.516	11.568	1.00	18.37
ATM	4655	C	PHE	687	-4.633	-1.106	10.538	1.00	13.34
ATM	4656	O	PHE	687	-3.634	-1.136	11.209	1.00	12.84
ATM	4657	N	MET	688	-5.841	-0.737	11.027	1.00	14.65
ATM	4658	CA	MET	688	-6.035	-0.331	12.418	1.00	14.46
ATM	4659	CB	MET	688	-5.921	-1.251	13.310	1.00	16.06
ATM	4660	CG	MET	688	-6.712	-1.311	14.648	1.00	16.59
ATM	4661	SD	MET	688	-8.533	-1.347	14.990	1.00	16.99
ATM	4662	CE	MET	688	-8.853	-3.254	14.656	1.00	19.17
ATM	4663	C	MET	688	-5.037	0.767	12.311	1.00	14.34
ATM	4664	O	MET	688	-4.713	0.191	14.197	1.00	18.35
ATM	4665	N	ALA	689	-4.630	1.675	12.131	1.00	14.13
ATM	4666	CA	ALA	689	-3.893	2.761	12.466	1.00	13.36
ATM	4667	CB	ALA	689	-2.719	3.031	11.421	1.00	15.11
ATM	4668	C	ALA	689	-4.610	4.045	12.716	1.00	13.15
ATM	4669	O	ALA	689	-4.631	5.181	13.151	1.00	14.38
ATM	4670	N	TYR	690	-5.923	3.491	13.449	1.00	13.63
ATM	4671	CA	TYR	690	-6.575	5.133	13.763	1.00	13.76
ATM	4672	CB	TYR	690	-7.009	5.375	12.333	1.00	14.16
ATM	4673	CG	TYR	690	-7.351	4.971	13.161	1.00	12.40
ATM	4674	CD1	TYR	690	-8.665	4.841	12.118	1.00	12.68
ATM	4675	CE1	TYR	690	-8.931	4.301	11.411	1.00	13.37
ATM	4676	CD2	TYR	690	-6.153	4.257	9.199	1.00	13.42
ATM	4677	CE2	TYR	690	-6.651	3.413	11.128	1.00	14.00
ATM	4678	CZ	TYR	690	-7.663	3.297	11.101	1.00	13.04
ATM	4679	OH	TYR	690	-8.146	3.463	11.130	1.00	14.37
ATM	4680	C	TYR	690	-8.187	4.693	13.192	1.00	14.39
ATM	4681	O	TYR	690	-9.136	5.144	13.105	1.00	15.19
ATM	4682	N	ALA	691	-7.175	3.809	14.382	1.00	13.30
ATM	4683	CA	ALA	691	-9.135	4.219	13.082	1.00	14.83
ATM	4684	CB	ALA	691	-8.172	3.162	13.193	1.00	13.88
ATM	4685	C	ALA	691	-9.124	4.217	13.383	1.00	13.32
ATM	4686	O	ALA	691	-11.110	4.614	13.113	1.00	14.11
ATM	4687	N	THR	692	-9.115	5.292	14.351	1.00	15.07
ATM	4688	CA	THR	692	-9.116	6.374	17.109	1.00	16.94
ATM	4689	CB	THR	692	-9.108	6.218	16.629	1.00	14.55
ATM	4690	OG1	THR	692	-8.119	6.482	18.902	1.00	15.54
ATM	4691	CG2	THR	692	-10.115	4.857	19.152	1.00	15.71
ATM	4692	C	THR	692	-8.115	7.165	16.636	1.00	18.24
ATM	4693	O	THR	692	-8.110	7.576	16.059	1.00	18.19
ATM	4694	N	PRO	693	-9.110	8.774	18.864	1.00	17.17
ATM	4695	CD	PRO	693	-11.119	8.968	17.351	1.00	18.47
ATM	4696	CA	PRO	693	-9.109	10.074	16.457	1.00	18.57
ATM	4697	CB	PRO	693	-10.115	11.030	17.032	1.00	20.23
ATM	4698	CG	PRO	693	-11.112	10.368	16.873	1.00	19.28
ATM	4699	C	PRO	693	-7.111	10.211	17.021	1.00	18.65
ATM	4700	O	PRO	693	-6.113	10.516	16.283	1.00	15.76
ATM	4701	N	GLU	694	-7.658	10.064	18.354	1.00	18.32
ATM	4702	CA	GLU	694	-6.371	10.194	18.987	1.00	21.05
ATM	4703	CP	GLU	694	-6.435	9.871	20.486	1.00	24.65
ATM	4704	CG	GLU	694	-6.938	11.039	21.341	1.00	32.62
ATM	4705	CD	GLU	694	-6.547	10.804	22.632	1.00	35.61
ATM	4706	OE1	GLU	694	-5.124	10.413	23.221	1.00	40.42
ATM	4707	OE2	GLU	694	-7.694	11.024	21.616	1.00	40.47
ATM	4708	C	GLU	694	-5.190	9.321	18.352	1.00	18.86
ATM	4709	O	GLU	694	-4.156	9.766	18.131	1.00	18.69
ATM	4710	N	GLN	695	-5.621	9.679	18.013	1.00	18.90
ATM	4711	CA	GLN	695	-4.623	9.207	17.383	1.00	17.55
ATM	4712	CB	GLN	695	-5.095	9.759	17.375	1.00	19.51
ATM	4713	CG	GLN	695	-5.169	9.143	18.722	1.00	21.74
ATM	4714	CD	GLN	695	-5.096	9.722	18.754	1.00	21.70
ATM	4715	OE1	GLN	695	-5.167	9.849	18.128	1.00	23.17
ATM	4716	OE2	GLN	695	-6.169	9.477	18.455	1.00	28.61
ATM	4717	C	GLN	695	-4.132	9.671	18.161	1.00	14.39
ATM	4718	O	GLN	695	-3.137	9.596	17.136	1.00	14.12
ATM	4719	N	FLA	696	-5.085	8.134	17.361	1.00	13.13
ATM	4720	CA	FLA	696	-5.187	8.137	17.113	1.00	12.71
ATM	4721	CB	FLA	696	-6.117	9.128	17.353	1.00	12.34
ATM	4722	C	FLA	696	-4.134	9.786	17.965	1.00	13.38
ATM	4723	O	FLA	696	-5.1254	9.849	18.158	1.00	14.81
ATM	4724	N	PHE	697	-4.131	10.191	14.924	1.00	14.91
ATM	4725	CA	PHE	697	-5.136	11.141	15.171	1.00	14.74

ATOM	4726	CB	PHE	697	-3.847	12.689	16.307	1.00	14.39
ATOM	4727	CG	PHE	697	-5.272	13.165	16.326	1.00	14.70
ATOM	4728	CD1	PHE	697	-5.973	13.364	15.138	1.00	15.78
ATOM	4729	CD2	PHE	697	-5.913	13.417	17.535	1.00	17.31
ATOM	4730	CE1	PHE	697	-7.296	13.403	15.117	1.00	17.92
ATOM	4731	CE2	PHE	697	-7.225	13.455	17.593	1.00	18.65
ATOM	4732	CZ	PHE	697	-7.928	14.350	16.133	1.00	17.31
ATOM	4733	O	PHE	697	-2.015	11.456	15.106	1.00	16.50
ATOM	4734	O	PHE	697	-1.255	11.372	14.491	1.00	15.69
ATOM	4735	N	GLU	698	-1.747	10.343	16.138	1.00	15.66
ATOM	4736	CA	GLU	698	-0.591	10.082	16.418	1.00	17.86
ATOM	4737	CB	GLU	698	-0.409	9.111	17.603	1.00	21.29
ATOM	4738	CG	GLU	698	0.951	8.822	18.090	1.00	20.05
ATOM	4739	CD	GLU	698	1.631	9.547	19.063	1.00	24.72
ATOM	4740	CE1	GLU	698	1.784	10.753	18.766	1.00	25.42
ATOM	4741	CE2	GLU	698	1.998	9.064	20.115	1.00	40.64
ATOM	4742	O	GLU	698	0.248	9.399	19.213	1.00	16.35
ATOM	4743	O	GLU	698	1.385	9.102	14.836	1.00	16.77
ATOM	4744	N	ASN	699	-0.486	8.473	14.614	1.00	15.59
ATOM	4745	CA	ASN	699	0.603	7.443	15.471	1.00	15.22
ATOM	4746	CB	ASN	699	-0.838	6.766	13.710	1.00	14.54
ATOM	4747	CG	ASN	699	-0.748	5.366	14.538	1.00	17.52
ATOM	4748	CD1	ASN	699	0.420	5.716	14.587	1.00	15.96
ATOM	4749	CD2	ASN	699	-1.857	4.869	14.621	1.00	15.39
ATOM	4750	O	ASN	699	0.159	8.856	12.136	1.00	14.83
ATOM	4751	O	ASN	699	1.134	8.955	11.488	1.00	14.12
ATOM	4752	N	ALA	700	-0.802	9.519	12.036	1.00	14.50
ATOM	4753	CA	ALA	700	-0.710	10.441	10.890	1.00	15.69
ATOM	4754	CB	ALA	700	-1.961	11.239	10.721	1.00	14.56
ATOM	4755	O	ALA	700	0.525	11.316	11.044	1.00	15.16
ATOM	4756	O	ALA	700	1.055	11.585	10.009	1.00	14.90
ATOM	4757	N	ALA	700	0.970	11.783	12.162	1.00	15.92
ATOM	4758	CA	ALA	700	1.920	12.659	12.449	1.00	16.05
ATOM	4759	CB	ALA	700	1.886	13.201	13.500	1.00	15.03
ATOM	4760	O	ALA	700	3.032	11.970	12.144	1.00	15.03
ATOM	4761	O	ALA	700	4.184	12.509	11.730	1.00	16.55
ATOM	4762	N	THR	701	2.089	10.687	11.612	1.00	14.38
ATOM	4763	CA	THR	701	4.163	9.808	11.411	1.00	12.88
ATOM	4764	CB	THR	701	4.123	8.410	12.066	1.00	12.19
ATOM	4765	CG1	THR	701	4.564	8.512	11.454	1.00	12.71
ATOM	4766	CG2	THR	701	5.177	7.815	12.744	1.00	12.48
ATOM	4767	O	THR	701	4.861	9.817	13.638	1.00	15.73
ATOM	4768	O	THR	701	6.115	9.951	10.539	1.00	14.96
ATOM	4769	N	VAL	702	3.855	9.594	10.005	1.00	14.32
ATOM	4770	CA	VAL	702	4.561	9.404	3.565	1.00	17.24
ATOM	4771	CB	VAL	702	2.825	8.882	3.219	1.00	18.94
ATOM	4772	CG1	VAL	702	1.763	9.181	6.767	1.00	24.70
ATOM	4773	CG2	VAL	702	1.666	7.300	9.243	1.00	17.69
ATOM	4774	O	VAL	702	4.173	10.380	3.437	1.00	17.44
ATOM	4775	O	VAL	702	5.207	10.344	7.131	1.00	17.66
ATOM	4776	N	MET	703	3.705	11.385	3.519	1.00	15.75
ATOM	4777	CA	MET	703	1.912	13.246	3.023	1.00	18.71
ATOM	4778	CB	MET	703	1.926	14.211	3.615	1.00	19.63
ATOM	4779	CG	MET	703	1.461	13.909	8.163	1.00	24.43
ATOM	4780	SD	MET	703	1.016	14.229	6.917	1.00	27.09
ATOM	4781	CE	MET	703	1.223	16.272	6.434	1.00	25.27
ATOM	4782	O	MET	703	2.173	13.691	8.479	1.00	17.56
ATOM	4783	O	MET	703	6.075	14.249	7.434	1.00	15.47
ATOM	4784	N	ARG	704	5.815	13.459	9.619	1.00	16.57
ATOM	4785	CA	ARG	704	7.166	13.856	10.107	1.00	17.21
ATOM	4786	CB	ARG	704	1.424	13.597	11.199	1.00	18.12
ATOM	4787	CG	ARG	704	8.566	14.413	12.170	1.00	17.42
ATOM	4788	CD	ARG	704	7.139	14.379	13.927	1.00	18.37
ATOM	4789	NE	ARG	704	6.789	14.923	14.462	1.00	21.69
ATOM	4790	CZ	ARG	704	5.169	14.242	15.177	1.00	21.26
ATOM	4791	NH1	ARG	705	4.760	12.940	15.124	1.00	23.11
ATOM	4792	NH2	ARG	705	4.340	14.830	16.125	1.00	22.67
ATOM	4793	O	ARG	705	3.196	13.194	5.193	1.00	17.67
ATOM	4794	O	ARG	705	9.430	13.968	9.227	1.00	17.74
ATOM	4795	N	ALA	706	7.367	11.341	8.682	1.00	16.11
ATOM	4796	CA	ALA	706	8.769	11.117	7.491	1.00	15.58
ATOM	4797	CB	ALA	706	8.135	9.607	7.421	1.00	14.95
ATOM	4798	O	ALA	706	8.447	11.584	6.445	1.00	15.19
ATOM	4799	O	ALA	706	9.668	11.568	5.709	1.00	15.93
ATOM	4800	N	GLY	707	8.022	12.544	6.033	1.00	14.74
ATOM	4801	CA	GLY	707	8.131	13.153	4.677	1.00	15.89
ATOM	4802	O	GLY	707	6.865	13.127	5.491	1.00	14.75

ATOM	4803	O	GLY	707	6.851	13.882	2.643	1.00	17.93
ATOM	4804	N	ALA	708	5.764	12.591	4.421	1.00	15.29
ATOM	4805	CA	ALA	708	4.509	12.675	3.198	1.00	14.65
ATOM	4806	CB	ALA	708	2.524	11.646	4.140	1.00	11.62
ATOM	4807	C	ALA	708	1.870	14.060	3.175	1.00	18.64
ATOM	4808	O	ALA	708	4.102	14.809	4.128	1.00	14.41
ATOM	4809	N	ASN	709	1.061	14.394	2.171	1.00	18.11
ATOM	4810	CA	ASN	709	2.869	15.682	2.160	1.00	17.31
ATOM	4811	CB	ASN	709	2.482	16.362	1.193	1.00	18.35
ATOM	4812	CG	ASN	709	1.905	16.548	0.151	1.00	18.85
ATOM	4813	OD1	ASN	709	4.693	17.323	1.118	1.00	18.11
ATOM	4814	ND2	ASN	709	4.246	15.951	-0.171	1.00	17.26
ATOM	4815	C	ASN	709	6.890	15.451	2.131	1.00	17.82
ATOM	4816	O	ASN	709	6.163	16.388	3.252	1.00	18.40
ATOM	4817	N	MET	710	0.448	14.712	2.179	1.00	17.16
ATOM	4818	CA	MET	710	-0.955	13.871	2.169	1.00	16.87
ATOM	4819	CB	MET	710	-1.713	14.121	1.194	1.00	17.00
ATOM	4820	CG	MET	710	-1.200	13.816	1.159	1.00	21.01
ATOM	4821	SD	MET	710	-1.944	14.057	-0.001	1.00	21.00
ATOM	4822	CE	MET	710	-4.715	15.873	0.161	1.00	21.13
ATOM	4823	C	MET	710	-1.085	13.363	1.177	1.00	18.48
ATOM	4824	O	MET	710	-0.135	11.854	1.183	1.00	14.15
ATOM	4825	N	VAL	711	-1.153	12.016	4.161	1.00	16.13
ATOM	4826	CA	VAL	711	-1.341	10.712	4.128	1.00	16.17
ATOM	4827	CB	VAL	711	-1.552	10.587	6.165	1.00	18.18
ATOM	4828	CG1	VAL	711	-1.021	9.352	6.115	1.00	21.08
ATOM	4829	CG2	VAL	711	-1.230	11.314	6.130	1.00	18.18
ATOM	4830	C	VAL	711	-3.825	10.112	2.186	1.00	18.18
ATOM	4831	O	VAL	711	-4.655	10.311	3.080	1.00	14.17
ATOM	4832	L	LYS	712	-4.631	8.840	1.170	1.00	18.14
ATOM	4833	CA	LYS	712	-4.798	8.187	2.085	1.00	14.18
ATOM	4834	CB	LYS	712	-4.445	7.301	1.648	1.00	14.18
ATOM	4835	CG	LYS	712	-5.648	6.722	1.006	1.00	18.14
ATOM	4836	CD	LYS	712	-5.475	6.176	-0.491	1.00	14.16
ATOM	4837	CE	LYS	712	-4.471	5.161	-0.170	1.00	14.16
ATOM	4838	C	LYS	712	-4.882	4.159	-0.157	1.00	18.12
ATOM	4839	NE	LYS	712	-5.371	7.160	3.060	1.00	18.19
ATOM	4840	O	LYS	712	-4.632	6.261	4.132	1.00	18.18
ATOM	4841	N	ILE	713	-3.683	7.103	4.167	1.00	18.14
ATOM	4842	CA	ILE	713	-2.349	6.168	1.160	1.00	18.18
ATOM	4843	CB	ILE	713	-2.800	6.349	6.179	1.00	18.18
ATOM	4844	CG2	ILE	713	-3.584	7.172	1.161	1.00	18.14
ATOM	4845	CG1	ILE	713	-3.667	8.173	6.072	1.00	21.13
ATOM	4846	OD1	ILE	713	-3.130	8.925	1.132	1.00	18.18
ATOM	4847	O	ILE	713	-3.553	5.645	4.151	1.00	18.14
ATOM	4848	O	ILE	713	-3.224	6.304	3.161	1.00	18.18
ATOM	4849	N	GLU	714	-3.899	4.364	4.622	1.00	18.14
ATOM	4850	CA	GLU	714	-4.917	3.641	3.095	1.00	18.17
ATOM	4851	CB	GLU	714	-4.530	2.189	3.135	1.00	18.19
ATOM	4852	CG	GLU	714	-3.183	1.991	3.074	1.00	21.16
ATOM	4853	CD	GLU	714	-7.866	0.539	2.197	1.00	21.12
ATOM	4854	DE1	GLU	714	-3.597	-0.351	3.132	1.00	21.17
ATOM	4855	DE2	GLU	714	-6.876	0.261	2.082	1.00	21.10
ATOM	4856	C	GLU	714	-11.162	3.643	4.167	1.00	18.19
ATOM	4857	O	GLU	714	-11.091	3.133	6.069	1.00	14.18
ATOM	4858	N	GLY	715	-12.304	3.910	4.256	1.00	14.12
ATOM	4859	CA	GLY	715	-13.545	3.936	5.032	1.00	21.16
ATOM	4860	C	GLY	715	-14.476	5.036	4.653	1.00	21.15
ATOM	4861	O	GLY	715	-14.963	5.933	3.353	1.00	21.19
ATOM	4862	N	GLY	716	-15.778	4.953	4.656	1.00	21.19
ATOM	4863	CA	GLY	716	-16.723	5.951	4.685	1.00	20.64
ATOM	4864	C	GLY	716	-17.198	6.933	5.731	1.00	14.18
ATOM	4865	O	GLY	716	-16.386	7.343	6.103	1.00	14.13
ATOM	4866	N	GLU	717	-18.513	7.921	5.323	1.00	14.19
ATOM	4867	CA	GLU	717	-19.143	7.823	6.857	1.00	21.18
ATOM	4868	CB	GLU	717	-19.131	7.438	6.948	1.00	18.13
ATOM	4869	CG	GLU	717	-19.111	6.436	6.154	1.00	18.10
ATOM	4870	CD	GLU	717	-21.170	9.634	6.959	1.00	17.18
ATOM	4871	DE1	GLU	717	-19.115	10.277	7.416	1.00	18.12
ATOM	4872	DE2	GLU	717	-19.118	9.932	6.825	1.00	18.11
ATOM	4873	C	GLU	717	-18.117	7.125	8.157	1.00	17.17
ATOM	4874	O	GLU	717	-18.117	8.153	8.865	1.00	17.16
ATOM	4875	N	TRP	718	-18.117	6.152	8.788	1.00	17.14
ATOM	4876	CA	TRP	718	-17.117	6.147	10.145	1.00	18.19
ATOM	4877	CB	TRP	718	-17.117	5.619	10.527	1.00	16.19
ATOM	4878	CG	TRP	718	-16.117	4.187	9.909	1.00	17.11
ATOM	4879	CD	TRP	718	-15.117	3.187	10.481	1.00	17.11

ATOM	4880	CE2	TRP	718	-14.218	3.604	9.554	1.00	17.66
ATOM	4881	CE3	TRP	718	-14.475	4.707	11.698	1.00	16.72
ATOM	4882	CD1	TRP	718	-16.260	3.780	8.677	1.00	16.47
ATOM	4883	NE1	TRP	718	-14.986	3.305	8.462	1.00	17.35
ATOM	4884	CZ2	TRP	718	-12.863	3.332	9.404	1.00	17.75
ATOM	4885	CZ3	TRP	718	-13.117	4.436	11.947	1.00	18.17
ATOM	4886	CH2	TRP	718	-12.241	3.752	11.001	1.00	18.73
ATOM	4887	C	TRP	718	-16.154	3.318	10.172	1.00	17.36
ATOM	4888	O	TRP	718	-16.163	3.691	11.094	1.00	16.26
ATOM	4889	N	LEU	719	-15.429	3.624	9.193	1.00	17.61
ATOM	4890	CA	LEU	719	-14.187	8.398	9.892	1.00	16.01
ATOM	4891	CB	LEU	719	-13.654	7.998	8.164	1.00	19.38
ATOM	4892	CG	LEU	719	-12.465	6.729	8.175	1.00	20.53
ATOM	4893	CD1	LEU	719	-12.935	6.426	7.305	1.00	20.90
ATOM	4894	CD2	LEU	719	-11.869	6.919	9.057	1.00	21.41
ATOM	4895	C	LEU	719	-14.132	9.918	9.485	1.00	16.42
ATOM	4896	O	LEU	719	-13.120	10.621	9.138	1.00	15.51
ATOM	4897	N	VAL	720	-15.818	10.421	9.125	1.00	15.73
ATOM	4898	CA	VAL	720	-16.114	11.861	9.181	1.00	16.54
ATOM	4899	CB	VAL	720	-17.664	12.001	9.174	1.00	16.36
ATOM	4900	CG1	VAL	720	-17.315	12.091	9.149	1.00	16.79
ATOM	4901	CG2	VAL	720	-18.183	12.734	7.161	1.00	15.53
ATOM	4902	C	VAL	720	-15.118	12.644	10.806	1.00	15.97
ATOM	4903	O	VAL	720	-14.113	13.337	10.045	1.00	15.83
ATOM	4904	N	GLU	721	-15.245	12.084	11.152	1.00	15.71
ATOM	4905	CA	GLU	721	-15.133	12.368	12.080	1.00	16.66
ATOM	4906	CB	GLU	721	-15.588	12.318	14.003	1.00	18.48
ATOM	4907	CG	GLU	721	-14.847	12.476	15.127	1.00	22.68
ATOM	4908	CD	GLU	721	-15.307	12.133	16.116	1.00	25.74
ATOM	4909	DE1	GLU	721	-14.866	11.131	16.132	1.00	27.93
ATOM	4910	DE2	GLU	721	-16.107	12.313	17.103	1.00	27.98
ATOM	4911	C	GLU	721	-13.610	12.333	12.666	1.00	15.34
ATOM	4912	O	GLU	721	-12.751	13.342	12.557	1.00	14.72
ATOM	4913	N	THR	722	-13.355	11.777	12.174	1.00	14.63
ATOM	4914	CA	THR	722	-11.608	11.634	12.175	1.00	14.47
ATOM	4915	CB	THR	722	-11.113	10.163	11.660	1.00	16.24
ATOM	4916	CG1	THR	722	-11.730	9.322	12.664	1.00	13.05
ATOM	4917	CG2	THR	722	-9.710	10.051	11.628	1.00	15.41
ATOM	4918	C	THR	722	-11.134	11.536	12.089	1.00	15.61
ATOM	4919	O	THR	722	-10.901	13.167	11.399	1.00	14.67
ATOM	4920	N	VAL	723	-11.193	12.606	9.854	1.00	16.05
ATOM	4921	CA	VAL	723	-11.133	13.166	8.307	1.00	15.71
ATOM	4922	CB	VAL	723	-12.468	13.236	7.687	1.00	15.17
ATOM	4923	CG1	VAL	723	-11.612	14.204	6.185	1.00	14.07
ATOM	4924	CG2	VAL	723	-11.430	11.801	7.122	1.00	15.82
ATOM	4925	C	VAL	723	-11.507	14.943	9.013	1.00	16.42
ATOM	4926	O	VAL	723	-10.453	15.694	9.079	1.00	16.04
ATOM	4927	N	GLN	724	-12.137	15.354	9.411	1.00	18.63
ATOM	4928	CA	GLN	724	-12.489	16.743	10.341	1.00	19.28
ATOM	4929	CB	GLN	724	-13.480	16.955	10.889	1.00	22.80
ATOM	4930	CG	GLN	724	-15.145	16.539	9.323	1.00	27.70
ATOM	4931	CD	GLN	724	-16.488	16.695	13.675	1.00	30.60
ATOM	4932	DE1	GLN	724	-16.869	16.241	11.816	1.00	32.97
ATOM	4933	NE2	GLN	724	-17.140	17.323	9.916	1.00	32.67
ATOM	4934	C	GLN	724	-11.613	17.132	11.211	1.00	14.09
ATOM	4935	O	GLN	724	-10.380	18.180	11.107	1.00	14.78
ATOM	4936	N	MET	725	-11.288	16.283	12.239	1.00	15.76
ATOM	4937	CA	MET	725	-10.280	16.576	13.214	1.00	15.65
ATOM	4938	CB	MET	725	-10.140	15.651	14.415	1.00	14.11
ATOM	4939	CG	MET	725	-11.753	15.813	15.136	1.00	15.19
ATOM	4940	SD	MET	725	-11.366	14.852	16.672	1.00	21.99
ATOM	4941	CE	MET	725	-10.847	15.617	17.760	1.00	16.31
ATOM	4942	C	MET	725	-9.849	16.517	12.714	1.00	14.34
ATOM	4943	O	MET	725	-8.918	17.311	13.171	1.00	14.82
ATOM	4944	N	LEU	726	-8.853	15.616	11.814	1.00	13.81
ATOM	4945	CA	LEU	726	-7.287	15.546	11.212	1.00	15.26
ATOM	4946	CB	LEU	726	-7.967	14.353	10.366	1.00	13.51
ATOM	4947	CG	LEU	726	-6.658	13.916	11.034	1.00	15.57
ATOM	4948	CD1	LEU	726	-6.316	12.860	10.089	1.00	16.31
ATOM	4949	CD2	LEU	726	-5.235	13.677	11.443	1.00	15.18
ATOM	4950	C	LEU	726	-6.873	16.819	10.526	1.00	14.89
ATOM	4951	O	LEU	726	-5.783	17.376	10.664	1.00	14.34
ATOM	4952	N	THR	727	-7.822	17.375	9.716	1.00	15.72
ATOM	4953	CA	THR	727	-7.440	17.482	8.959	1.00	22.17
ATOM	4954	CB	THR	727	-8.885	16.755	8.050	1.00	23.63
ATOM	4955	CG1	THR	727	-8.161	17.118	7.111	1.00	25.11
ATOM	4956	CG2	THR	727	-8.161	16.777	11.171	1.00	24.18

ATCM	4957	C	THR	727	-7.332	19.719	9.747	1.00	22.81
ATCM	4958	O	THR	727	-6.363	20.442	9.473	1.00	22.47
ATCM	4959	N	GLU	728	-8.143	19.958	10.769	1.00	23.34
ATCM	4960	CA	GLU	728	-7.903	21.131	11.631	1.00	25.65
ATCM	4961	CB	GLU	728	-9.052	21.331	12.623	1.00	28.40
ATCM	4962	CG	GLU	728	-9.655	20.064	13.186	1.00	30.71
ATCM	4963	CH	GLU	728	-10.801	20.348	14.119	1.00	33.19
ATCM	4964	OH1	GLU	728	-11.541	21.733	13.952	1.00	35.04
ATCM	4965	OH2	GLU	728	-10.979	19.539	15.114	1.00	32.42
ATCM	4966	C	GLU	728	-6.570	21.013	12.353	1.00	24.86
ATCM	4967	O	GLU	728	-6.069	21.947	12.898	1.00	25.47
ATCM	4968	N	ARG	729	-5.986	19.816	12.353	1.00	24.34
ATCM	4969	CA	ARG	729	-4.700	19.611	13.010	1.00	22.32
ATCM	4970	CB	ARG	729	-4.757	18.331	13.907	1.00	20.27
ATCM	4971	CG	ARG	729	-5.646	18.197	15.121	1.00	18.17
ATCM	4972	CH	ARG	729	-5.986	17.126	15.876	1.00	16.12
ATCM	4973	NE	ARG	729	-6.652	15.615	15.011	1.00	17.63
ATCM	4974	CY	ARG	729	-6.095	18.109	16.911	1.00	19.57
ATCM	4975	NH1	ARG	729	-8.621	18.334	15.725	1.00	20.67
ATCM	4976	NH2	ARG	729	-8.898	18.350	18.003	1.00	20.63
ATCM	4977	C	ARG	729	-4.554	19.324	15.004	1.00	23.15
ATCM	4978	O	ARG	729	-2.146	18.435	15.232	1.00	21.15
ATCM	4979	N	ALA	730	-3.739	20.111	10.886	1.00	22.50
ATCM	4980	CA	ALA	730	-2.732	20.130	9.621	1.00	21.50
ATCM	4981	CB	ALA	730	-1.419	20.801	10.419	1.00	20.07
ATCM	4982	C	ALA	730	-2.472	19.044	9.006	1.00	19.61
ATCM	4983	O	ALA	730	-1.474	18.939	8.301	1.00	18.98
ATCM	4984	N	VAL	731	-3.256	18.937	9.033	1.00	17.72
ATCM	4985	CA	VAL	731	-3.138	16.341	8.338	1.00	17.32
ATCM	4986	CB	VAL	731	-3.134	18.330	9.235	1.00	17.57
ATCM	4987	CG1	VAL	731	-2.985	14.334	8.353	1.00	16.76
ATCM	4988	CG2	VAL	731	-2.138	15.683	10.236	1.00	18.90
ATCM	4989	C	VAL	731	-4.114	16.673	7.153	1.00	17.98
ATCM	4990	O	VAL	731	-5.283	16.373	7.155	1.00	17.43
ATCM	4991	N	PRO	732	-3.652	16.391	5.912	1.00	17.30
ATCM	4992	CB	PRO	732	-2.351	17.114	5.475	1.00	18.31
ATCM	4993	CA	PRO	732	-4.154	16.727	4.775	1.00	18.13
ATCM	4994	CH	PRO	732	-3.771	17.023	3.607	1.00	19.19
ATCM	4995	CG	PRO	732	-2.353	17.103	4.002	1.00	23.17
ATCM	4996	C	PRO	732	-4.820	15.243	4.006	1.00	16.51
ATCM	4997	O	PRO	732	-3.427	14.415	4.797	1.00	15.31
ATCM	4998	N	VAL	733	-6.056	14.923	4.257	1.00	15.86
ATCM	4999	CA	VAL	733	-6.456	13.533	3.101	1.00	16.50
ATCM	5000	CB	VAL	733	-7.543	13.131	3.144	1.00	16.63
ATCM	5001	CG1	VAL	733	-7.463	11.690	3.069	1.00	21.38
ATCM	5002	CG2	VAL	733	-7.070	13.588	6.541	1.00	17.55
ATCM	5003	C	VAL	733	-7.033	13.185	2.727	1.00	16.46
ATCM	5004	O	VAL	733	-7.403	11.351	2.160	1.00	16.04
ATCM	5005	N	CYS	734	-6.658	13.010	2.142	1.00	13.15
ATCM	5006	CA	CYS	734	-7.184	11.490	0.983	1.00	13.30
ATCM	5007	CB	CYS	734	-6.051	10.957	0.170	1.00	11.02
ATCM	5008	SG	CYS	734	-6.600	10.169	-1.355	1.00	15.01
ATCM	5009	C	CYS	734	-8.075	10.324	1.397	1.00	14.24
ATCM	5010	O	CYS	734	-7.641	9.453	2.150	1.00	16.01
ATCM	5011	N	GLY	735	-9.314	10.323	0.921	1.00	12.03
ATCM	5012	CA	GLY	735	-10.129	9.150	1.146	1.00	13.47
ATCM	5013	C	GLY	735	-9.435	8.169	0.122	1.00	14.63
ATCM	5014	O	GLY	735	-9.114	8.174	-0.430	1.00	15.25
ATCM	5015	N	HIS	736	-10.617	6.346	0.193	1.00	14.52
ATCM	5016	CA	HIS	736	-10.184	5.136	-0.316	1.00	14.30
ATCM	5017	CB	HIS	736	-6.289	4.818	0.411	1.00	15.08
ATCM	5018	CG	HIS	736	-8.336	3.797	-0.342	1.00	18.75
ATCM	5019	CH	HIS	736	-3.319	3.110	-1.311	1.00	17.48
ATCM	5020	NH1	HIS	736	-7.559	4.287	-0.188	1.00	18.99
ATCM	5021	NH2	HIS	736	-7.469	3.236	-1.182	1.00	18.58
ATCM	5022	NE2	HIS	736	-6.645	2.045	-1.354	1.00	16.34
ATCM	5023	C	HIS	736	-11.568	4.919	-0.089	1.00	18.44
ATCM	5024	O	HIS	736	-11.096	4.441	1.000	1.00	18.94
ATCM	5025	N	LEU	737	-11.499	4.757	-1.138	1.00	18.18
ATCM	5026	CA	LEU	737	-11.353	4.233	-1.115	1.00	17.13
ATCM	5027	CB	LEU	737	-14.240	4.232	-1.345	1.00	18.60
ATCM	5028	CG	LEU	737	-13.210	6.030	-0.170	1.00	17.13
ATCM	5029	CH	LEU	737	-13.249	7.044	-0.303	1.00	17.74
ATCM	5030	CD	LEU	737	-15.695	5.339	-0.949	1.00	18.41
ATCM	5031	C	LEU	737	-11.776	3.992	-0.323	1.00	18.17
ATCM	5032	O	LEU	737	-11.767	3.447	-0.345	1.00	18.11
ATCM	5033	N	GLY	738	-11.711	3.100	-0.113	1.00	18.48

ATOM	5034	CA	GLY	738	-14.872	1.006	-3.209	1.00	22.29
ATOM	5035	C	GLY	738	-14.114	-0.315	-2.623	1.00	23.99
ATOM	5036	O	GLY	738	-14.412	-0.588	-1.487	1.00	23.25
ATOM	5037	N	LEU	739	-13.217	-0.822	-3.390	1.00	25.38
ATOM	5038	CA	LEU	739	-12.517	-1.299	-2.941	1.00	25.53
ATOM	5039	CB	LEU	739	-11.915	-2.731	-4.152	1.00	26.77
ATOM	5040	CG	LEU	739	-11.616	-4.130	-4.032	1.00	28.37
ATOM	5041	CD1	LEU	739	-10.911	-4.722	-5.291	1.00	29.59
ATOM	5042	CD2	LEU	739	-10.849	-4.108	-2.804	1.00	27.32
ATOM	5043	C	LEU	739	-11.413	-1.160	-1.398	1.00	26.30
ATOM	5044	O	LEU	739	-10.331	-1.173	-2.143	1.00	27.75
ATOM	5045	N	THR	740	-11.636	-1.605	-0.697	1.00	25.51
ATOM	5046	CA	THR	740	-10.718	-1.316	0.319	1.00	26.30
ATOM	5047	CB	THR	740	-11.349	-0.547	1.514	1.00	25.97
ATOM	5048	OG1	THR	740	-12.545	-1.372	1.852	1.00	26.66
ATOM	5049	CG2	THR	740	-11.783	0.486	1.170	1.00	28.04
ATOM	5050	C	THR	740	-9.986	-2.387	0.794	1.00	25.33
ATOM	5051	O	THR	740	-10.512	-3.112	1.594	1.00	26.61
ATOM	5052	N	PRO	741	-8.748	-2.704	0.312	1.00	25.16
ATOM	5053	CD	PRO	741	-8.011	-1.117	-0.510	1.00	26.13
ATOM	5054	CA	PRO	741	-7.919	-3.442	0.441	1.00	23.15
ATOM	5055	CB	PRO	741	-6.514	-3.142	-0.066	1.00	25.17
ATOM	5056	CG	PRO	741	-6.518	-2.348	-0.144	1.00	28.33
ATOM	5057	C	PRO	741	-7.736	-4.123	0.111	1.00	29.47
ATOM	5058	O	PRO	741	-7.590	-5.397	0.441	1.00	20.75
ATOM	5059	N	GLN	742	-7.783	-3.741	3.003	1.00	18.93
ATOM	5060	CA	GLN	742	-7.617	-3.156	4.425	1.00	18.32
ATOM	5061	CB	GLN	742	-7.514	-2.173	5.246	1.00	18.32
ATOM	5062	CG	GLN	742	-6.168	-1.118	5.237	1.00	19.12
ATOM	5063	CD	GLN	742	-6.017	-0.115	5.799	1.00	21.79
ATOM	5064	OE1	GLN	742	-6.713	0.116	6.722	1.00	23.77
ATOM	5065	NE2	GLN	742	-5.150	0.113	5.258	1.00	18.03
ATOM	5066	C	GLN	742	-8.413	-4.118	4.916	1.00	17.75
ATOM	5067	O	GLN	742	-8.559	-5.112	5.826	1.00	17.97
ATOM	5068	N	SER	743	-9.776	-4.119	4.296	1.00	18.05
ATOM	5069	CA	SER	743	-11.171	-4.110	4.872	1.00	17.46
ATOM	5070	CB	SER	743	-12.412	-4.113	4.535	1.00	18.21
ATOM	5071	CG	SER	743	-12.119	-3.112	5.173	1.00	18.51
ATOM	5072	C	SER	743	-11.147	-3.112	3.849	1.00	18.63
ATOM	5073	O	SER	743	-12.156	-6.112	3.725	1.00	19.29
ATOM	5074	N	VAL	744	-10.152	-6.112	3.291	1.00	17.52
ATOM	5075	CA	VAL	744	-10.120	-7.119	2.483	1.00	18.17
ATOM	5076	CB	VAL	744	-8.100	-8.112	2.066	1.00	20.91
ATOM	5077	CG1	VAL	744	-8.172	-8.177	3.294	1.00	20.41
ATOM	5078	CG2	VAL	744	-9.104	-9.117	1.126	1.00	21.66
ATOM	5079	C	VAL	744	-11.161	-9.117	3.206	1.00	18.57
ATOM	5080	O	VAL	744	-11.673	-9.716	2.594	1.00	17.85
ATOM	5081	N	ASN	745	-10.801	-9.267	4.591	1.00	18.34
ATOM	5082	CA	ASN	745	-11.451	-10.337	5.256	1.00	18.99
ATOM	5083	CB	ASN	745	-10.783	-10.501	6.624	1.00	18.10
ATOM	5084	CG	ASN	745	-9.306	-10.325	6.505	1.00	18.24
ATOM	5085	OD1	ASN	745	-8.931	-11.111	6.055	1.00	16.42
ATOM	5086	ND2	ASN	745	-6.462	-9.332	6.890	1.00	16.58
ATOM	5087	C	ASN	745	-12.147	-10.130	5.426	1.00	20.36
ATOM	5088	O	ASN	745	-12.118	-11.046	5.590	1.00	19.34
ATOM	5089	N	ILE	746	-13.352	-8.835	5.385	1.00	21.75
ATOM	5090	CA	ILE	746	-14.759	-8.474	5.512	1.00	24.03
ATOM	5091	CB	ILE	746	-14.928	-6.955	5.722	1.00	25.51
ATOM	5092	CG2	ILE	746	-16.393	-6.970	5.577	1.00	27.38
ATOM	5093	CD1	ILE	746	-14.406	-6.552	7.192	1.00	25.93
ATOM	5094	CD1	ILE	746	-15.274	-7.038	8.141	1.00	23.57
ATOM	5095	C	ILE	746	-15.481	-8.111	4.733	1.00	25.31
ATOM	5096	O	ILE	746	-16.510	-8.532	4.774	1.00	14.42
ATOM	5097	N	PRO	747	-14.927	-8.459	3.676	1.00	26.24
ATOM	5098	CA	PRO	747	-15.521	-8.142	1.774	1.00	25.69
ATOM	5099	CB	PRO	747	-14.506	-7.659	0.704	1.00	30.32
ATOM	5100	CG	PRO	747	-14.863	-4.111	1.074	1.00	35.11
ATOM	5101	CD1	PRO	747	-16.606	-5.113	1.504	1.00	34.45
ATOM	5102	CD2	PRO	747	-13.625	-5.171	0.764	1.00	34.85
ATOM	5103	OE1	PRO	747	-15.820	-4.111	1.814	1.00	35.51
ATOM	5104	OE2	PRO	747	-13.621	-4.111	1.115	1.00	35.46
ATOM	5105	CZ	PRO	747	-14.779	-3.111	1.183	1.00	35.11
ATOM	5106	N	PHE	747	-15.323	-10.103	1.412	1.00	29.09
ATOM	5107	O	PHE	747	-16.241	-10.142	1.587	1.00	28.25
ATOM	5108	N	GLY	748	-14.317	-10.637	1.096	1.00	29.09
ATOM	5109	CA	GLY	748	-14.117	-11.111	1.111	1.00	27.11
ATOM	5110	C	GLY	748	-14.117	-11.111	0.111	1.00	27.11

ATOM	5111	O	GLY	748	-12.228	-13.354	-0.253	1.00	33.17
ATOM	5112	N	GLY	749	-12.400	-11.309	0.184	1.00	30.50
ATOM	5113	CA	GLY	749	-11.529	-11.709	-0.985	1.00	31.40
ATOM	5114	C	GLY	749	-11.550	-9.973	-1.705	1.00	33.32
ATOM	5115	O	GLY	749	-11.279	-9.032	-1.269	1.00	31.79
ATOM	5116	N	TYR	750	-10.857	-9.863	-2.807	1.00	33.74
ATOM	5117	CA	TYR	750	-10.639	-8.626	-3.574	1.00	35.38
ATOM	5118	CB	TYR	750	-9.440	-8.377	-4.133	1.00	36.26
ATOM	5119	CG	TYR	750	-8.561	-8.445	-3.076	1.00	38.04
ATOM	5120	CD1	TYR	750	-7.861	-9.674	-2.639	1.00	39.14
ATOM	5121	CE1	TYR	750	-6.886	-9.742	-1.644	1.00	39.39
ATOM	5122	CD2	TYR	750	-7.858	-7.793	-2.490	1.00	38.32
ATOM	5123	CE2	TYR	750	-6.886	-7.339	-1.493	1.00	39.18
ATOM	5124	CZ	TYR	750	-6.404	-8.569	-1.077	1.00	39.12
ATOM	5125	OH	TYR	750	-5.441	-8.626	-0.035	1.00	39.23
ATOM	5126	C	TYR	750	-11.856	-8.115	-4.735	1.00	35.70
ATOM	5127	O	TYR	750	-11.591	-9.404	-5.153	1.00	36.11
ATOM	5128	N	LYS	751	-13.025	-8.127	-4.430	1.00	35.48
ATOM	5129	CA	LYS	751	-14.048	-8.156	-5.463	1.00	36.67
ATOM	5130	CB	LYS	751	-13.355	-8.949	-4.911	1.00	38.35
ATOM	5131	CG	LYS	751	-14.311	-10.343	-4.361	1.00	40.62
ATOM	5132	CE	LYS	751	-13.370	-10.470	-3.466	1.00	42.34
ATOM	5133	CF	LYS	751	-13.344	-12.243	-2.632	1.00	42.32
ATOM	5134	NZ	LYS	751	-16.334	-12.339	-1.854	1.00	42.36
ATOM	5135	C	LYS	751	-14.569	-6.741	-5.783	1.00	36.34
ATOM	5136	O	LYS	751	-14.371	-5.319	-4.793	1.00	36.35
ATOM	5137	N	VAL	752	-15.194	-6.377	-6.945	1.00	36.26
ATOM	5138	CA	VAL	752	-15.467	-5.264	-7.357	1.00	36.39
ATOM	5139	CB	VAL	752	-16.196	-5.294	-8.310	1.00	36.18
ATOM	5140	CG1	VAL	752	-16.794	-3.743	-9.191	1.00	36.49
ATOM	5141	CG2	VAL	752	-15.057	-9.841	-9.753	1.00	35.38
ATOM	5142	C	VAL	752	-16.826	-4.784	-6.461	1.00	36.45
ATOM	5143	O	VAL	752	-17.758	-5.133	-6.177	1.00	36.56
ATOM	5144	N	GLN	753	-16.740	-3.133	-6.018	1.00	36.02
ATOM	5145	CA	GLN	753	-17.772	-2.543	-5.169	1.00	36.46
ATOM	5146	CB	GLN	753	-17.156	-2.319	-4.215	1.00	37.30
ATOM	5147	CG	GLN	753	-17.031	-2.264	-3.732	1.00	37.36
ATOM	5148	CD	GLN	753	-15.996	-4.745	-2.946	1.00	34.63
ATOM	5149	OE1	GLN	753	-14.816	-4.755	-3.155	1.00	36.64
ATOM	5150	NE2	GLN	753	-16.428	-5.660	-2.569	1.00	34.11
ATOM	5151	C	GLN	753	-16.540	-1.475	-5.937	1.00	35.82
ATOM	5152	O	GLN	753	-16.136	-1.474	-5.028	1.00	34.76
ATOM	5153	N	ILE	754	-19.645	-1.417	-5.161	1.00	36.54
ATOM	5154	CA	ILE	754	-20.446	-0.397	-6.015	1.00	37.86
ATOM	5155	C	ILE	754	-21.571	-0.979	-6.843	1.00	38.60
ATOM	5156	O	ILE	754	-22.558	-0.301	-7.136	1.00	38.37
ATOM	5157	N	ARG	755	-21.413	-2.240	-7.137	1.00	40.53
ATOM	5158	CA	ARG	755	-22.405	-2.548	-8.037	1.00	42.45
ATOM	5159	CB	ARG	755	-23.618	-4.428	-8.145	1.00	41.43
ATOM	5160	CG	ARG	755	-20.750	-4.711	-8.951	1.00	44.60
ATOM	5161	CD	ARG	755	-21.069	-4.927	-10.423	1.00	44.87
ATOM	5162	NE	ARG	755	-19.883	-9.181	-11.242	1.00	44.58
ATOM	5163	CZ	ARG	755	-19.041	-6.196	-11.066	1.00	45.22
ATOM	5164	NH1	ARG	755	-19.246	-7.072	-10.090	1.00	45.18
ATOM	5165	NH2	ARG	755	-16.001	-6.343	-11.876	1.00	44.29
ATOM	5166	C	ARG	755	-23.788	-2.326	-7.389	1.00	41.83
ATOM	5167	O	ARG	755	-23.990	-1.237	-7.257	1.00	41.19
ATOM	5168	N	GLY	756	-24.734	-2.257	-6.139	1.00	41.66
ATOM	5169	CA	GLY	756	-25.079	-2.193	-7.616	1.00	43.45
ATOM	5170	C	GLY	756	-25.404	-0.636	-7.154	1.00	41.42
ATOM	5171	O	GLY	756	-25.510	0.087	-6.827	1.00	41.35
ATOM	5172	N	ASP	757	-23.693	-0.683	-7.123	1.00	41.36
ATOM	5173	CA	ASP	757	-24.151	0.944	-6.704	1.00	41.65
ATOM	5174	CB	ASP	757	-24.642	1.035	-7.011	1.00	41.38
ATOM	5175	CG	ASP	757	-23.854	0.882	-6.477	1.00	51.42
ATOM	5176	CD	ASP	757	-24.425	1.648	-6.311	1.00	51.37
ATOM	5177	OE2	ASP	757	-20.725	-0.071	-6.795	1.00	51.94
ATOM	5178	C	ASP	757	-27.899	1.188	-5.217	1.00	41.67
ATOM	5179	O	ASP	757	-27.443	2.264	-4.827	1.00	43.09
ATOM	5180	N	GLU	758	-28.193	3.187	-4.338	1.00	43.15
ATOM	5181	CA	GLU	758	-27.968	0.403	-3.956	1.00	41.44
ATOM	5182	CB	GLU	758	-28.338	-1.513	-3.267	1.00	43.32
ATOM	5183	CG	GLU	758	-28.241	-0.845	-3.744	1.00	47.39
ATOM	5184	CH	GLU	758	-27.797	-0.259	-3.123	1.00	41.85
ATOM	5185	OE1	GLU	758	-28.446	-3.298	-3.369	1.00	50.43
ATOM	5186	OE2	GLU	758	-28.177	-2.747	-3.732	1.00	50.14
ATOM	5187	C	GLU	758	-28.733	-1.653	-3.653	1.00	49.44

ATOM	5188	O	GLU	758	-26.242	1.628	-1.956	1.00	37.55
ATOM	5189	N	ALA	759	-25.622	-0.160	-2.130	1.00	37.40
ATOM	5190	CA	ALA	759	-24.191	0.035	-2.931	1.00	34.93
ATOM	5191	CB	ALA	759	-23.420	-1.141	-3.568	1.00	35.45
ATOM	5192	C	ALA	759	-23.735	1.731	-3.649	1.00	33.03
ATOM	5193	O	ALA	759	-21.393	2.114	-3.915	1.00	31.60
ATOM	5194	N	GLY	760	-24.182	1.541	-4.313	1.00	31.34
ATOM	5195	CA	GLY	760	-23.319	2.734	-5.610	1.00	29.95
ATOM	5196	C	GLY	760	-24.143	4.016	-4.344	1.00	29.45
ATOM	5197	O	GLY	760	-23.272	4.866	-4.641	1.00	28.24
ATOM	5198	N	ASP	761	-25.390	4.150	-4.413	1.00	28.80
ATOM	5199	CA	ASP	761	-25.240	5.335	-3.711	1.00	28.80
ATOM	5200	CB	ASP	761	-27.343	5.148	-3.415	1.00	29.11
ATOM	5201	CG	ASP	761	-28.193	5.146	-4.646	1.00	29.47
ATOM	5202	OD1	ASP	761	-27.664	5.876	-5.742	1.00	29.15
ATOM	5203	OD2	ASP	761	-29.400	4.145	-4.544	1.00	21.42
ATOM	5204	C	ASP	761	-25.070	5.494	-2.411	1.00	28.73
ATOM	5205	O	ASP	761	-24.802	6.112	-1.942	1.00	26.21
ATOM	5206	N	GLN	762	-24.717	4.169	-1.793	1.00	28.59
ATOM	5207	CA	GLN	762	-23.970	4.196	-0.514	1.00	28.42
ATOM	5208	CB	GLN	762	-23.458	3.188	-0.813	1.00	29.13
ATOM	5209	CG	GLN	762	-24.889	2.131	1.315	1.00	22.47
ATOM	5210	CT	GLN	762	-23.545	3.160	2.313	1.00	13.46
ATOM	5211	OE1	GLN	762	-24.663	3.118	2.863	1.00	13.73
ATOM	5212	NE2	GLN	762	-22.712	4.135	2.767	1.00	13.13
ATOM	5213	C	GLN	762	-22.571	4.473	-0.764	1.00	28.12
ATOM	5214	O	GLN	762	-22.091	5.157	0.681	1.00	24.34
ATOM	5215	N	LEU	763	-21.917	4.178	-1.841	1.00	23.53
ATOM	5216	CA	LEU	763	-20.575	5.078	-2.133	1.00	23.74
ATOM	5217	CB	LEU	763	-19.271	4.140	-3.137	1.00	23.91
ATOM	5218	CG	LEU	763	-19.384	2.160	-2.012	1.00	20.43
ATOM	5219	CD1	LEU	763	-18.850	2.157	-4.773	1.00	31.68
ATOM	5220	CD2	LEU	763	-18.224	2.187	-2.071	1.00	30.71
ATOM	5221	O	LEU	763	-22.602	4.176	-2.416	1.00	24.34
ATOM	5222	C	LEU	763	-19.725	3.119	-1.974	1.00	20.15
ATOM	5223	N	LEU	764	-21.616	3.113	-3.134	1.00	14.14
ATOM	5224	CA	LEU	764	-21.761	4.124	-3.435	1.00	24.45
ATOM	5225	CB	LEU	764	-22.988	3.133	-4.130	1.00	24.40
ATOM	5226	CG	LEU	764	-22.310	2.111	-5.461	1.00	26.78
ATOM	5227	CD1	LEU	764	-24.307	4.155	-6.006	1.00	27.16
ATOM	5228	CD2	LEU	764	-22.323	10.188	-4.906	1.00	26.33
ATOM	5229	C	LEU	764	-21.926	4.116	-2.192	1.00	22.36
ATOM	5230	O	LEU	764	-21.257	10.125	-1.978	1.00	21.39
ATOM	5231	N	SER	765	-22.823	3.748	-1.530	1.00	22.67
ATOM	5232	CA	SER	765	-23.064	3.115	-0.635	1.00	21.77
ATOM	5233	CB	SER	765	-24.134	4.676	0.745	1.00	21.69
ATOM	5234	CG	SER	765	-24.403	3.355	1.955	1.00	24.43
ATOM	5235	C	SER	765	-21.779	3.186	0.766	1.00	20.68
ATOM	5236	O	SER	765	-21.459	10.527	1.137	1.00	18.30
ATOM	5237	N	ASP	766	-21.050	3.373	0.832	1.00	19.16
ATOM	5238	CA	ASP	766	-19.801	3.338	1.865	1.00	19.55
ATOM	5239	CB	ASP	766	-19.213	6.917	1.123	1.00	19.61
ATOM	5240	CG	ASP	766	-19.907	6.911	2.643	1.00	23.80
ATOM	5241	OD1	ASP	766	-26.473	6.524	3.012	1.00	20.16
ATOM	5242	OD2	ASP	766	-19.863	4.774	2.358	1.00	24.68
ATOM	5243	C	ASP	766	-18.768	9.295	0.493	1.00	17.74
ATOM	5244	O	ASP	766	-18.374	9.898	1.117	1.00	17.66
ATOM	5245	N	ALA	767	-18.666	9.321	-0.132	1.00	18.82
ATOM	5246	CA	ALA	767	-17.708	10.200	-0.493	1.00	18.71
ATOM	5247	CB	ALA	767	-17.759	3.492	-2.101	1.00	18.07
ATOM	5248	C	ALA	767	-17.992	11.658	-0.447	1.00	18.35
ATOM	5249	O	ALA	767	-17.191	11.458	-0.119	1.00	18.25
ATOM	5250	N	DEU	768	-19.269	11.952	-0.145	1.00	18.76
ATOM	5251	CA	DEU	768	-19.674	11.421	-0.137	1.00	18.66
ATOM	5252	CB	DEU	768	-21.150	11.617	-0.146	1.00	19.17
ATOM	5253	CG	DEU	769	-21.490	11.710	-0.141	1.00	19.36
ATOM	5254	CD1	DEU	768	-21.981	11.536	-2.148	1.00	18.36
ATOM	5255	CD2	DEU	768	-21.036	15.068	-2.513	1.00	21.35
ATOM	5256	C	DEU	768	-19.465	13.744	1.133	1.00	16.46
ATOM	5257	O	DEU	768	-18.117	14.872	1.341	1.00	18.53
ATOM	5258	N	ALA	769	-19.669	12.744	1.266	1.00	15.98
ATOM	5259	CA	ALA	769	-18.567	12.934	1.319	1.00	16.17
ATOM	5260	CB	ALA	769	-20.938	11.726	4.602	1.00	17.97
ATOM	5261	C	ALA	769	-18.333	13.166	2.661	1.00	14.89
ATOM	5262	O	ALA	769	-17.714	18.990	4.919	1.00	16.01
ATOM	5263	N	LEU	770	-20.144	12.443	1.974	1.00	14.74
ATOM	5264	CA	LEU	770	-18.716	12.577	3.211	1.00	14.38

ATOM	5265	CB	LEU	770	-14.947	11.464	2.482	1.00	13.69
ATOM	5266	CG	LEU	770	-15.159	10.031	2.022	1.00	14.90
ATOM	5267	CD1	LEU	770	-14.652	8.989	2.028	1.00	14.19
ATOM	5268	CD2	LEU	770	-14.479	9.898	4.346	1.00	14.20
ATOM	5269	C	LEU	770	-15.250	13.940	1.713	1.00	14.23
ATOM	5270	O	LEU	770	-14.387	14.585	3.319	1.00	15.79
ATOM	5271	N	GLU	771	-15.816	14.385	1.601	1.00	15.67
ATOM	5272	CA	GLU	771	-15.457	15.635	1.049	1.00	14.95
ATOM	5273	CB	GLU	771	-16.126	15.892	-0.311	1.00	15.82
ATOM	5274	CG	GLU	771	-15.885	17.276	-0.887	1.00	14.20
ATOM	5275	CD	GLU	771	-16.600	17.431	-2.261	1.00	15.85
ATOM	5276	OE1	GLU	771	-17.837	17.270	-2.743	1.00	15.35
ATOM	5277	OE2	GLU	771	-15.921	17.824	-3.184	1.00	16.38
ATOM	5278	C	GLU	771	-15.874	16.793	2.015	1.00	15.89
ATOM	5279	O	GLU	771	-15.097	17.714	2.801	1.00	15.83
ATOM	5280	N	ALA	772	-17.304	16.696	2.512	1.00	15.85
ATOM	5281	CA	ALA	772	-17.653	17.677	3.449	1.00	17.16
ATOM	5282	CB	ALA	772	-19.123	17.384	1.095	1.00	16.98
ATOM	5283	C	ALA	772	-18.896	17.678	4.776	1.00	18.66
ATOM	5284	O	ALA	772	-16.355	18.695	5.452	1.00	17.21
ATOM	5285	N	ALA	772	-18.394	16.531	5.115	1.00	18.42
ATOM	5286	CA	ALA	772	-15.586	16.397	6.158	1.00	14.31
ATOM	5287	CB	ALA	772	-15.339	14.808	6.490	1.00	17.94
ATOM	5288	C	ALA	772	-14.180	17.087	6.865	1.00	17.55
ATOM	5289	O	ALA	772	-13.539	17.258	7.284	1.00	14.72
ATOM	5290	N	GLY	773	-13.314	17.509	5.940	1.00	15.75
ATOM	5291	CA	GLY	773	-12.314	17.954	4.352	1.00	16.12
ATOM	5292	C	GLY	773	-11.431	17.251	3.013	1.00	15.01
ATOM	5293	O	GLY	773	-16.185	17.297	4.600	1.00	14.97
ATOM	5294	N	ALA	773	-11.786	16.048	4.451	1.00	14.61
ATOM	5295	CA	ALA	773	-10.383	15.206	2.646	1.00	14.38
ATOM	5296	CB	ALA	773	-11.813	13.996	2.134	1.00	14.63
ATOM	5297	C	ALA	773	-10.810	16.172	1.308	1.00	15.18
ATOM	5298	O	ALA	773	-11.534	16.705	0.708	1.00	14.76
ATOM	5299	N	GLN	774	-9.337	16.170	0.324	1.00	14.50
ATOM	5300	CA	GLN	774	-8.584	17.171	-0.130	1.00	15.43
ATOM	5301	CB	GLN	774	-7.885	17.892	0.129	1.00	15.10
ATOM	5302	CG	GLN	774	-7.318	18.346	1.383	1.00	14.82
ATOM	5303	CD	GLN	774	-6.888	19.131	1.347	1.00	14.39
ATOM	5304	OE1	GLN	774	-6.032	20.121	0.384	1.00	24.99
ATOM	5305	NE2	GLN	774	-6.395	19.135	3.007	1.00	21.34
ATOM	5306	C	GLN	774	-8.657	16.133	-1.474	1.00	15.17
ATOM	5307	O	GLN	774	-8.344	16.768	-2.517	1.00	14.82
ATOM	5308	N	LEU	777	-8.307	14.918	-1.310	1.00	15.85
ATOM	5309	CA	LEU	777	-8.547	13.990	-2.419	1.00	15.20
ATOM	5310	CB	LEU	777	-7.187	13.873	-2.562	1.00	16.16
ATOM	5311	CG	LEU	777	-6.384	14.119	-3.869	1.00	22.07
ATOM	5312	CD1	LEU	777	-4.376	13.847	-3.129	1.00	20.46
ATOM	5313	CD2	LEU	777	-6.342	13.731	-3.042	1.00	23.78
ATOM	5314	C	LEU	777	-9.316	12.317	-3.125	1.00	15.97
ATOM	5315	O	LEU	777	-9.810	12.313	-1.366	1.00	15.13
ATOM	5316	N	LEU	778	-9.654	11.754	-3.163	1.00	15.83
ATOM	5317	CA	LEU	778	-10.175	10.101	-1.379	1.00	14.56
ATOM	5318	CB	LEU	778	-11.441	10.387	-3.176	1.00	14.31
ATOM	5319	CG	LEU	778	-12.112	9.393	-3.192	1.00	14.97
ATOM	5320	CD1	LEU	778	-12.316	9.343	-1.306	1.00	15.37
ATOM	5321	CD2	LEU	778	-14.130	9.393	-1.609	1.00	15.98
ATOM	5322	C	LEU	778	-9.332	8.647	-1.955	1.00	15.86
ATOM	5323	O	LEU	778	-9.731	9.313	-1.150	1.00	16.74
ATOM	5324	N	VAL	779	-9.819	8.450	-1.449	1.00	14.31
ATOM	5325	CA	VAL	779	-9.235	7.348	-4.295	1.00	14.20
ATOM	5326	CB	VAL	779	-8.057	6.628	-3.694	1.00	14.30
ATOM	5327	CG1	VAL	779	-7.355	5.142	-4.902	1.00	14.33
ATOM	5328	CG2	VAL	779	-6.774	7.354	-1.739	1.00	14.87
ATOM	5329	C	VAL	779	-10.185	6.153	-4.416	1.00	14.26
ATOM	5330	O	VAL	779	-11.171	6.122	-1.439	1.00	14.26
ATOM	5331	N	LEU	780	-10.725	5.982	-5.632	1.00	16.87
ATOM	5332	CA	LEU	780	-11.954	5.094	-5.902	1.00	14.23
ATOM	5333	CB	LEU	780	-12.307	5.737	-4.937	1.00	20.90
ATOM	5334	CG	LEU	780	-14.189	6.196	-4.415	1.00	24.41
ATOM	5335	CD1	LEU	780	-15.027	6.667	-7.588	1.00	22.61
ATOM	5336	CD2	LEU	780	-14.941	5.046	-5.477	1.00	24.16
ATOM	5337	C	LEU	780	-11.263	3.341	-6.535	1.00	17.70
ATOM	5338	O	LEU	780	-10.617	3.912	-7.580	1.00	18.28
ATOM	5339	N	GLY	781	-11.485	3.693	-5.895	1.00	17.11
ATOM	5340	CA	GLY	781	-10.913	1.434	-6.189	1.00	18.43
ATOM	5341	CB	GLY	781	-9.972	0.857	-5.374	1.00	19.29

ATOM	5342	CS	GLU	781	-9.242	-0.416	-5.728	1.00	19.49
ATOM	5343	CD	GLU	781	-8.175	-0.831	-4.735	1.00	23.53
ATOM	5344	OE1	GLU	781	-7.901	-0.070	-3.781	1.00	21.13
ATOM	5345	OE2	GLU	781	-7.591	-1.925	-4.921	1.00	25.81
ATOM	5346	C	GLU	781	-11.923	0.370	-6.808	1.00	20.03
ATOM	5347	O	GLU	781	-12.881	0.291	-6.088	1.00	21.13
ATOM	5348	N	CYS	782	-11.751	-0.207	-7.986	1.00	21.54
ATOM	5349	CA	CYS	782	-12.531	-1.260	-8.553	1.00	21.35
ATOM	5350	CB	CYS	782	-12.571	-2.623	-8.037	1.00	23.48
ATOM	5351	SG	CYS	782	-10.361	-2.991	-8.514	1.00	23.47
ATOM	5352	C	CYS	782	-14.073	-1.076	-8.334	1.00	23.30
ATOM	5353	O	CYS	782	-14.673	-1.783	-7.468	1.00	21.95
ATOM	5354	N	VAL	783	-14.586	-0.163	-9.088	1.00	24.52
ATOM	5355	CA	VAL	783	-15.988	0.173	-9.016	1.00	26.91
ATOM	5356	CB	VAL	783	-16.173	1.481	-8.189	1.00	24.96
ATOM	5357	CG1	VAL	783	-15.673	2.685	-8.971	1.00	29.79
ATOM	5358	CG2	VAL	783	-17.621	1.687	-7.843	1.00	33.62
ATOM	5359	C	VAL	783	-16.434	0.330	-10.467	1.00	26.27
ATOM	5360	O	VAL	783	-15.628	0.711	-11.316	1.00	26.47
ATOM	5361	N	PRO	784	-17.771	0.082	-13.770	1.00	29.23
ATOM	5362	CA	PRO	784	-18.791	-0.423	-8.913	1.00	27.16
ATOM	5363	CB	PRO	784	-18.171	0.226	-12.148	1.00	26.47
ATOM	5364	CP	PRO	784	-19.671	-0.087	-12.090	1.00	26.76
ATOM	5365	CG	PRO	784	-20.008	0.110	-13.612	1.00	23.94
ATOM	5366	C	PRO	784	-17.903	1.615	-12.644	1.00	26.67
ATOM	5367	O	PRO	784	-18.053	2.640	-11.897	1.00	27.09
ATOM	5368	N	VAL	785	-17.503	1.748	-13.908	1.00	26.20
ATOM	5369	CA	VAL	785	-17.191	3.033	-14.512	1.00	26.42
ATOM	5370	CB	VAL	785	-16.897	2.932	-16.014	1.00	26.52
ATOM	5371	CG1	VAL	785	-16.453	4.282	-16.602	1.00	27.38
ATOM	5372	CG2	VAL	785	-15.821	1.848	-16.221	1.00	26.58
ATOM	5373	C	VAL	785	-18.287	1.115	-14.347	1.00	26.76
ATOM	5374	O	VAL	785	-18.021	5.214	-13.939	1.00	23.64
ATOM	5375	N	GLU	786	-19.513	3.705	-14.684	1.00	26.86
ATOM	5376	CA	GLU	786	-20.633	1.038	-14.541	1.00	26.47
ATOM	5377	CB	GLU	786	-21.853	3.966	-14.959	1.00	26.51
ATOM	5378	CG	GLU	786	-21.951	2.441	-14.909	1.00	33.28
ATOM	5379	CD	GLU	786	-21.021	1.874	-15.912	1.00	33.31
ATOM	5380	OE1	GLU	786	-21.062	2.224	-17.113	1.00	35.73
ATOM	5381	OE2	GLU	786	-20.157	0.910	-15.578	1.00	36.70
ATOM	5382	C	GLU	786	-20.952	5.203	-13.121	1.00	25.73
ATOM	5383	O	GLU	786	-21.142	6.332	-12.933	1.00	23.13
ATOM	5384	N	LEU	787	-20.400	4.339	-12.130	1.00	25.85
ATOM	5385	CA	LEU	787	-20.470	4.884	-10.713	1.00	24.33
ATOM	5386	CB	LEU	787	-20.375	3.681	-9.797	1.00	27.24
ATOM	5387	CG	LEU	787	-20.739	3.826	-8.533	1.00	23.42
ATOM	5388	CD1	LEU	787	-20.937	2.583	-7.637	1.00	30.34
ATOM	5389	CD2	LEU	787	-19.666	4.621	-7.631	1.00	30.31
ATOM	5390	C	LEU	787	-19.338	5.816	-10.481	1.00	24.13
ATOM	5391	O	LEU	787	-19.519	6.834	-9.784	1.00	21.41
ATOM	5392	N	ALA	788	-18.171	5.573	-11.067	1.00	23.63
ATOM	5393	CA	ALA	788	-17.019	6.436	-10.835	1.00	23.32
ATOM	5394	CB	ALA	788	-15.794	5.833	-11.564	1.00	21.55
ATOM	5395	C	ALA	788	-17.307	7.817	-11.510	1.00	23.99
ATOM	5396	O	ALA	788	-16.890	8.455	-11.020	1.00	23.15
ATOM	5397	N	LYS	789	-18.117	7.408	-12.566	1.00	25.42
ATOM	5398	CA	LYS	789	-18.495	9.750	-13.253	1.00	25.62
ATOM	5399	CB	LYS	789	-19.213	8.352	-14.577	1.00	29.53
ATOM	5400	CG	LYS	789	-18.679	7.680	-15.393	1.00	34.03
ATOM	5401	CD	LYS	789	-19.470	7.337	-16.723	1.00	37.45
ATOM	5402	CE	LYS	789	-18.909	6.342	-17.513	1.00	37.98
ATOM	5403	NE	LYS	789	-19.367	6.370	-18.912	1.00	38.55
ATOM	5404	C	LYS	789	-19.365	9.853	-13.423	1.00	24.56
ATOM	5405	O	LYS	789	-19.114	11.074	-12.140	1.00	23.55
ATOM	5406	N	ARG	790	-20.360	9.254	-11.737	1.00	23.75
ATOM	5407	CA	ARG	790	-21.275	9.959	-10.821	1.00	18.75
ATOM	5408	CB	ARG	790	-22.310	9.011	-10.329	1.00	16.20
ATOM	5409	CG	ARG	790	-23.410	8.564	-11.192	1.00	-1.43
ATOM	5410	CD	ARG	790	-24.737	8.502	-10.483	1.00	34.23
ATOM	5411	DE	ARG	790	-24.736	7.563	-9.382	1.00	34.32
ATOM	5412	CW	ARG	790	-25.513	7.694	-8.297	1.00	31.30
ATOM	5413	NH1	ARG	790	-26.310	6.725	-8.205	1.00	31.31
ATOM	5414	NH2	ARG	790	-25.515	6.793	-7.323	1.00	31.56
ATOM	5415	C	ARG	790	-20.510	10.612	-9.680	1.00	21.43
ATOM	5416	O	ARG	790	-22.732	11.767	-9.429	1.00	21.36
ATOM	5417	N	TRP	791	-16.544	8.904	-7.338	1.00	21.17
ATOM	5418	CA	TRP	791	-18.811	10.374	-7.078	1.00	18.67

ATOM	5419	CR	ILE	791	-17.999	9.232	-7.310	1.00	18.12
ATOM	5420	CG2	ILE	791	-16.996	9.862	-6.317	1.00	16.97
ATOM	5421	CG1	ILE	791	-18.971	8.276	-6.599	1.00	20.08
ATOM	5422	CD1	ILE	791	-18.299	7.123	-5.849	1.00	23.20
ATOM	5423	C	ILE	791	-17.982	11.504	-8.402	1.00	15.86
ATOM	5424	O	ILE	791	-17.806	12.553	-7.732	1.00	15.97
ATOM	5425	N	THR	792	-17.192	11.215	-9.519	1.00	17.34
ATOM	5426	CA	THR	792	-16.271	12.576	-10.014	1.00	19.29
ATOM	5427	CB	THR	792	-15.511	11.819	-11.242	1.00	19.17
ATOM	5428	CG1	THR	792	-14.775	10.636	-10.896	1.00	17.58
ATOM	5429	CG2	THR	792	-14.539	12.879	-11.737	1.00	18.60
ATOM	5430	C	THR	792	-17.004	11.612	-10.360	1.00	20.40
ATOM	5431	O	THR	792	-16.476	14.713	-10.145	1.00	20.78
ATOM	5432	N	GLU	793	-18.216	13.509	-10.891	1.00	20.13
ATOM	5433	CA	GLU	793	-18.971	14.566	-11.236	1.00	21.69
ATOM	5434	CB	GLU	793	-20.014	14.382	-12.307	1.00	24.27
ATOM	5435	CG	GLU	793	-19.412	11.848	-11.589	1.00	25.80
ATOM	5436	CD	GLU	793	-20.423	13.741	-14.703	1.00	31.59
ATOM	5437	OE1	GLU	793	-21.513	12.160	-14.457	1.00	33.12
ATOM	5438	OE2	GLU	793	-20.135	14.143	-15.808	1.00	34.84
ATOM	5439	C	GLU	793	-19.654	15.177	-16.027	1.00	21.66
ATOM	5440	O	GLU	793	-19.869	16.546	-16.995	1.00	21.52
ATOM	5441	N	ALA	794	-19.990	14.579	-6.023	1.00	20.64
ATOM	5442	CA	ALA	794	-20.648	15.074	-7.831	1.00	19.93
ATOM	5443	CB	ALA	794	-21.394	13.976	-7.102	1.00	21.36
ATOM	5444	C	ALA	794	-19.675	15.779	-6.867	1.00	20.63
ATOM	5445	O	ALA	794	-20.088	16.571	-6.064	1.00	20.19
ATOM	5446	N	LEU	795	-18.396	11.170	-6.940	1.00	19.64
ATOM	5447	CA	LEU	795	-17.424	15.900	-6.034	1.00	17.52
ATOM	5448	CB	LEU	795	-16.488	14.970	-5.483	1.00	20.18
ATOM	5449	CG	LEU	795	-17.098	13.770	-4.674	1.00	20.70
ATOM	5450	CD1	LEU	795	-18.962	11.379	-4.142	1.00	21.53
ATOM	5451	CD2	LEU	795	-17.934	14.176	-3.527	1.00	26.77
ATOM	5452	C	LEU	795	-16.586	17.078	-6.657	1.00	15.79
ATOM	5453	O	LEU	795	-16.268	17.660	-7.846	1.00	16.54
ATOM	5454	N	ALA	796	-16.227	16.070	-5.840	1.00	15.48
ATOM	5455	CA	ALA	796	-15.404	19.170	-6.710	1.00	15.70
ATOM	5456	CB	ALA	796	-15.684	20.270	-6.494	1.00	15.60
ATOM	5457	C	ALA	796	-13.936	16.780	-6.193	1.00	16.71
ATOM	5458	O	ALA	796	-13.108	19.170	-7.008	1.00	14.79
ATOM	5459	N	ILE	797	-13.617	17.790	-5.175	1.00	14.50
ATOM	5460	CA	ILE	797	-12.243	17.540	-4.972	1.00	13.26
ATOM	5461	CB	ILE	797	-11.629	16.916	-3.560	1.00	14.10
ATOM	5462	CG2	ILE	797	-11.315	17.970	-3.488	1.00	13.72
ATOM	5463	CG1	ILE	797	-11.932	15.644	-3.365	1.00	15.77
ATOM	5464	CD1	ILE	797	-11.592	14.970	-2.090	1.00	16.44
ATOM	5465	C	ILE	797	-11.860	15.570	-6.034	1.00	11.79
ATOM	5466	O	ILE	797	-11.720	15.340	-6.595	1.00	11.87
ATOM	5467	N	PFO	798	-10.565	16.410	-6.340	1.00	14.76
ATOM	5468	CD	PFO	798	-9.444	17.270	-5.974	1.00	15.77
ATOM	5469	CA	PFO	798	-10.181	15.446	-7.359	1.00	17.35
ATOM	5470	CB	PFO	798	-8.720	15.776	-7.660	1.00	15.01
ATOM	5471	CG	PFO	798	-7.256	16.542	-6.455	1.00	17.08
ATOM	5472	C	PFO	798	-11.377	14.004	-6.920	1.00	13.75
ATOM	5473	O	PFO	798	-11.202	14.665	-5.745	1.00	13.45
ATOM	5474	N	VAL	799	-11.764	11.164	-7.875	1.00	15.79
ATOM	5475	CA	VAL	799	-11.982	11.770	-7.633	1.00	15.13
ATOM	5476	CB	VAL	799	-11.432	11.319	-8.013	1.00	16.72
ATOM	5477	CG1	VAL	799	-11.605	9.845	-7.864	1.00	13.72
ATOM	5478	CG2	VAL	799	-11.422	11.040	-7.113	1.00	13.76
ATOM	5479	C	VAL	799	-11.994	10.441	-6.433	1.00	14.77
ATOM	5480	O	VAL	799	-11.949	11.029	-6.473	1.00	13.79
ATOM	5481	N	ILE	800	-11.196	11.162	-7.751	1.00	14.76
ATOM	5482	CA	ILE	800	-11.170	8.335	-6.450	1.00	11.15
ATOM	5483	CB	ILE	800	-11.861	8.375	-7.575	1.00	11.59
ATOM	5484	CG2	ILE	800	-11.835	6.444	-8.178	1.00	11.51
ATOM	5485	CG1	ILE	800	-11.315	10.810	-7.524	1.00	11.10
ATOM	5486	CD1	ILE	800	-11.074	11.021	-6.676	1.00	17.30
ATOM	5487	C	ILE	800	-11.691	7.911	-8.429	1.00	11.61
ATOM	5488	O	ILE	800	-11.113	7.834	-7.414	1.00	11.66
ATOM	5489	N	GLY	801	-11.673	7.849	-9.629	1.00	11.09
ATOM	5490	CA	GLY	801	-11.178	6.025	-9.283	1.00	11.12
ATOM	5491	C	GLY	801	-11.151	4.535	-10.061	1.00	13.23
ATOM	5492	O	GLY	801	-11.055	5.200	-10.949	1.00	12.71
ATOM	5493	N	ILE	802	-10.503	3.713	-8.753	1.00	14.81
ATOM	5494	CA	ILE	802	-11.711	2.533	-8.954	1.00	16.69
ATOM	5495	CB	ILE	802	-11.795	2.164	-8.774	1.00	15.76

ATOM	5496	CG2	ILE	802	-7.575	2.202	-7.439	1.00	18.40
ATOM	5497	CG1	ILE	802	-6.172	0.782	-8.967	1.00	20.00
ATOM	5498	CD1	ILE	802	-5.323	0.706	-10.195	1.00	20.86
ATOM	5499	C	ILE	802	-8.773	1.468	-10.222	1.00	19.80
ATOM	5500	O	ILE	802	-9.548	1.112	-9.345	1.00	16.12
ATOM	5501	N	GLY	803	-8.831	1.008	-11.466	1.00	18.14
ATOM	5502	CA	GLY	803	-9.826	0.024	-11.354	1.00	18.81
ATOM	5503	C	GLY	803	-11.211	0.649	-11.313	1.00	19.82
ATOM	5504	O	GLY	803	-12.206	-0.041	-11.600	1.00	20.70
ATOM	5505	N	ALA	804	-11.278	1.957	-12.049	1.00	19.42
ATOM	5506	CA	ALA	804	-12.544	2.676	-12.945	1.00	18.13
ATOM	5507	CB	ALA	804	-12.545	3.719	-10.922	1.00	16.95
ATOM	5508	C	ALA	804	-12.834	3.319	-12.281	1.00	17.12
ATOM	5509	O	ALA	804	-13.727	4.205	-13.476	1.00	18.19
ATOM	5510	N	GLY	805	-12.079	2.999	-14.411	1.00	17.34
ATOM	5511	CA	GLY	805	-12.289	3.195	-15.518	1.00	19.47
ATOM	5512	C	GLY	805	-11.524	4.893	-15.585	1.00	19.15
ATOM	5513	O	GLY	805	-10.932	5.306	-14.964	1.00	19.95
ATOM	5514	N	ASN	806	-11.646	5.509	-17.057	1.00	18.88
ATOM	5515	CA	ASN	806	-10.939	6.740	-17.314	1.00	18.11
ATOM	5516	CB	ASN	806	-10.410	6.784	-18.784	1.00	16.44
ATOM	5517	CG	ASN	806	-11.511	6.903	-19.810	1.00	18.11
ATOM	5518	OD1	ASN	806	-11.125	7.237	-19.971	1.00	16.15
ATOM	5519	ND1	ASN	806	-12.767	6.740	-19.484	1.00	18.11
ATOM	5520	C	ASN	806	-11.774	8.006	-17.062	1.00	18.11
ATOM	5521	O	ASN	806	-11.411	9.031	-17.497	1.00	18.11
ATOM	5522	N	VAL	807	-12.812	7.888	-16.131	1.00	18.11
ATOM	5523	CA	VAL	807	-13.756	8.945	-16.133	1.00	18.11
ATOM	5524	CB	VAL	807	-15.205	8.489	-15.863	1.00	21.11
ATOM	5525	CG1	VAL	807	-16.140	9.685	-15.847	1.00	21.11
ATOM	5526	CG2	VAL	807	-15.578	7.547	-16.960	1.00	24.11
ATOM	5527	C	VAL	807	-13.154	9.758	-14.783	1.00	18.11
ATOM	5528	O	VAL	807	-13.941	10.770	-14.478	1.00	18.11
ATOM	5529	N	THR	808	-12.161	9.257	-14.357	1.00	18.11
ATOM	5530	CA	THR	808	-11.899	9.915	-12.854	1.00	18.11
ATOM	5531	CB	THR	808	-11.203	8.740	-11.865	1.00	18.11
ATOM	5532	CG1	THR	808	-10.153	8.252	-12.507	1.00	18.11
ATOM	5533	CG2	THR	808	-12.215	7.943	-12.346	1.00	18.11
ATOM	5534	C	THR	808	-10.944	11.043	-13.250	1.00	18.11
ATOM	5535	O	THR	808	-10.476	11.103	-14.290	1.00	18.11
ATOM	5536	N	ASP	809	-10.675	11.948	-12.142	1.00	18.11
ATOM	5537	CA	ASP	809	-9.790	13.346	-12.556	1.00	18.11
ATOM	5538	CB	ASP	809	-9.912	14.145	-11.405	1.00	18.11
ATOM	5539	CG	ASP	809	-11.322	14.541	-11.131	1.00	18.11
ATOM	5540	OD1	ASP	809	-11.890	15.147	-12.131	1.00	18.11
ATOM	5541	OD2	ASP	809	-11.857	14.648	-10.326	1.00	18.11
ATOM	5542	C	ASP	809	-8.142	12.840	-12.631	1.00	18.11
ATOM	5543	O	ASP	809	-7.135	13.240	-13.073	1.00	14.11
ATOM	5544	N	GLY	810	-8.011	11.843	-12.031	1.00	18.11
ATOM	5545	CA	GLY	810	-6.971	11.911	-12.033	1.00	18.11
ATOM	5546	C	GLY	810	-6.641	9.581	-12.037	1.00	14.54
ATOM	5547	O	GLY	810	-7.656	8.841	-11.914	1.00	14.55
ATOM	5548	N	GLN	811	-5.434	8.964	-12.115	1.00	14.64
ATOM	5549	CA	GLN	811	-5.242	7.508	-12.093	1.00	18.60
ATOM	5550	CB	GLN	811	-4.449	7.011	-13.536	1.00	16.14
ATOM	5551	CG	GLN	811	-6.026	7.248	-14.515	1.00	16.55
ATOM	5552	CD	GLN	811	-7.254	6.444	-14.248	1.00	14.86
ATOM	5553	OE1	GLN	811	-7.145	5.244	-13.812	1.00	15.67
ATOM	5554	NE2	GLN	811	-8.428	6.941	-14.513	1.00	18.00
ATOM	5555	C	GLN	811	-4.145	7.114	-11.173	1.00	16.44
ATOM	5556	O	GLN	811	-3.129	7.943	-10.940	1.00	18.57
ATOM	5557	N	ILE	812	-4.131	5.240	-10.648	1.00	18.11
ATOM	5558	CA	ILE	812	-3.750	5.444	-9.725	1.00	21.11
ATOM	5559	CB	ILE	812	-3.344	5.640	-8.289	1.00	24.57
ATOM	5560	CG1	ILE	812	-4.422	4.743	-7.910	1.00	24.11
ATOM	5561	CG2	ILE	812	-5.111	5.440	-7.461	1.00	26.56
ATOM	5562	CD1	ILE	812	-2.168	6.111	-6.047	1.00	24.11
ATOM	5563	C	ILE	812	-2.380	3.963	-10.096	1.00	22.34
ATOM	5564	O	ILE	812	-3.731	3.142	-10.599	1.00	22.15
ATOM	5565	N	LEU	813	-1.672	5.443	-9.841	1.00	22.11
ATOM	5566	CA	LEU	813	-1.369	2.031	-10.077	1.00	27.36
ATOM	5567	CB	LEU	813	-1.231	1.844	-11.572	1.00	24.46
ATOM	5568	CG	LEU	813	-2.228	0.843	-12.233	1.00	13.54
ATOM	5569	CD1	LEU	813	-1.759	0.522	-13.636	1.00	36.02
ATOM	5570	C1A	LEU	813	-2.396	-0.440	-11.426	1.00	34.60
ATOM	5571	C	LEU	813	-0.675	1.754	-9.175	1.00	27.36
ATOM	5572	O	LEU	813	-0.783	2.118	-9.118	1.00	24.76

ATOM	5573	N	VAL	814	0.046	-0.422	-9.038	1.00	27.73
ATOM	5574	CA	VAL	814	1.228	-0.099	-8.368	1.00	24.75
ATOM	5575	CB	VAL	814	0.967	-1.504	-7.375	1.00	26.98
ATOM	5576	CG1	VAL	814	2.285	-2.045	-7.170	1.00	27.58
ATOM	5577	CG2	VAL	814	-0.088	-1.420	-6.705	1.00	29.29
ATOM	5578	C	VAL	814	2.313	-0.208	-9.456	1.00	21.90
ATOM	5579	O	VAL	814	2.128	-0.851	-10.467	1.00	19.33
ATOM	5580	N	MET	815	3.441	-0.438	-9.202	1.00	20.34
ATOM	5581	CA	MET	815	4.546	-0.432	-10.142	1.00	13.61
ATOM	5582	CB	MET	815	5.710	1.244	-9.564	1.00	18.22
ATOM	5583	CG	MET	815	6.182	-0.786	-8.190	1.00	18.35
ATOM	5584	SD	MET	815	7.964	-0.947	-8.342	1.00	16.36
ATOM	5585	CE	MET	815	8.452	-0.581	-8.957	1.00	11.50
ATOM	5586	C	MET	815	5.020	-0.873	-10.521	1.00	17.74
ATOM	5587	O	MET	815	5.463	-1.205	-11.679	1.00	19.67
ATOM	5588	N	HIS	816	4.908	-1.918	-9.567	1.00	17.17
ATOM	5589	CA	HIS	816	5.358	-3.276	-9.870	1.00	13.66
ATOM	5590	CB	HIS	816	5.519	-4.091	-8.570	1.00	16.96
ATOM	5591	CG	HIS	816	6.234	-3.679	-7.567	1.00	16.58
ATOM	5592	CD	HIS	816	6.212	-2.670	-6.675	1.00	11.97
ATOM	5593	NE1	HIS	816	7.604	-3.177	-7.507	1.00	18.90
ATOM	5594	HE1	HIS	816	8.123	-2.500	-6.607	1.00	11.54
ATOM	5595	HE2	HIS	816	7.561	-2.551	-6.306	1.00	21.47
ATOM	5596	C	HIS	816	4.578	-0.993	-10.994	1.00	20.90
ATOM	5597	O	HIS	816	5.196	-4.844	-11.501	1.00	20.05
ATOM	5598	N	ASP	817	3.740	-5.524	-11.317	1.00	23.00
ATOM	5599	CA	ASP	817	2.123	-4.095	-11.394	1.00	28.57
ATOM	5600	CB	ASP	817	1.641	-4.017	-11.979	1.00	23.00
ATOM	5601	CG	ASP	817	0.689	-4.800	-10.773	1.00	31.54
ATOM	5602	CD1	ASP	817	0.878	-6.062	-10.745	1.00	24.60
ATOM	5603	DD2	ASP	817	0.224	-4.214	-9.776	1.00	24.24
ATOM	5604	C	ASP	817	1.786	-3.341	-11.501	1.00	26.37
ATOM	5605	O	ASP	817	2.742	-3.925	-14.687	1.00	27.19
ATOM	5606	N	ALA	818	3.064	-2.041	-10.419	1.00	17.64
ATOM	5607	CA	ALA	818	1.520	-1.195	-14.651	1.00	17.51
ATOM	5608	CB	ALA	818	1.461	-0.262	-14.104	1.00	18.73
ATOM	5609	C	ALA	818	4.573	-1.609	-15.438	1.00	18.47
ATOM	5610	O	ALA	818	4.661	-1.348	-16.840	1.00	17.47
ATOM	5611	N	PHE	819	5.556	-2.232	-14.768	1.00	16.40
ATOM	5612	CA	PHE	819	6.764	-2.676	-15.414	1.00	28.70
ATOM	5613	CB	PHE	819	7.994	-2.103	-14.708	1.00	26.19
ATOM	5614	CG	PHE	819	7.889	-0.677	-14.319	1.00	24.48
ATOM	5615	CD1	PHE	819	7.412	-0.237	-15.130	1.00	18.19
ATOM	5616	CD2	PHE	819	8.248	-0.219	-13.996	1.00	18.81
ATOM	5617	CE1	PHE	819	7.263	1.588	-14.375	1.00	28.43
ATOM	5618	CE2	PHE	819	8.131	1.132	-12.753	1.00	29.96
ATOM	5619	CZ	PHE	819	7.643	2.037	-13.707	1.00	33.50
ATOM	5620	C	PHE	819	6.863	-4.191	-15.551	1.00	25.17
ATOM	5621	O	PHE	819	7.955	-4.743	-15.346	1.00	24.68
ATOM	5622	N	GLY	820	5.753	-4.872	-15.323	1.00	24.44
ATOM	5623	CA	GLY	820	5.733	-6.310	-15.413	1.00	21.97
ATOM	5624	C	GLY	820	6.656	-7.010	-14.423	1.00	29.59
ATOM	5625	O	GLY	820	7.124	-8.110	-14.683	1.00	26.84
ATOM	5626	N	ILE	821	6.913	-6.360	-13.237	1.00	23.07
ATOM	5627	CA	ILE	821	7.779	-6.932	-12.277	1.00	23.14
ATOM	5628	CB	ILE	821	8.241	-5.841	-11.247	1.00	20.40
ATOM	5629	CG1	ILE	821	9.023	-6.565	-10.110	1.00	19.34
ATOM	5630	CG2	ILE	821	9.099	-4.832	-11.956	1.00	13.75
ATOM	5631	CD1	ILE	821	9.420	-3.621	-11.125	1.00	17.39
ATOM	5632	C	ILE	821	7.015	-8.935	-11.565	1.00	21.87
ATOM	5633	O	ILE	821	7.542	-9.133	-11.311	1.00	21.66
ATOM	5634	N	THR	822	5.757	-7.733	-11.233	1.00	21.23
ATOM	5635	CA	THR	822	4.916	-8.731	-10.582	1.00	13.78
ATOM	5636	CB	THR	822	3.548	-8.117	-10.196	1.00	13.81
ATOM	5637	CG1	THR	822	3.630	-7.441	-11.377	1.00	13.64
ATOM	5638	CG2	THR	822	3.697	-7.134	-9.036	1.00	13.52
ATOM	5639	C	THR	822	4.689	-10.014	-11.477	1.00	11.12
ATOM	5640	O	THR	822	4.675	-9.948	-12.634	1.00	18.97
ATOM	5641	N	GLY	823	4.514	-11.112	-10.713	1.00	13.39
ATOM	5642	CA	GLY	823	4.285	-13.431	-11.374	1.00	13.65
ATOM	5643	C	GLY	823	4.137	-12.444	-12.863	1.00	13.12
ATOM	5644	O	GLY	823	5.114	-12.352	-13.591	1.00	15.17
ATOM	5645	N	GLY	824	2.903	-12.560	-13.338	1.00	15.52
ATOM	5646	CA	GLY	824	2.671	-12.584	-14.769	1.00	17.84
ATOM	5647	C	GLY	824	1.199	-12.505	-15.103	1.00	49.56
ATOM	5648	O	GLY	824	0.812	-12.437	-16.271	1.00	50.37
ATOM	5649	N	HIS	825	0.768	-12.481	-14.068	1.00	50.83

ATCM	5650	CA	HIS	825	-1.077	-12.408	-14.748	1.00	52.44
ATCM	5651	CB	HIS	825	-1.037	-13.633	-13.610	1.00	54.90
ATCM	5652	CG	HIS	825	-1.153	-14.335	-14.063	1.00	57.05
ATCM	5653	CD2	HIS	825	-0.491	-15.460	-13.381	1.00	58.90
ATCM	5654	ND1	HIS	825	-1.195	-15.355	-15.376	1.00	59.02
ATCM	5655	CE1	HIS	825	-0.322	-16.323	-15.483	1.00	59.10
ATCM	5656	NE2	HIS	825	-0.146	-16.874	-14.087	1.00	59.90
ATCM	5657	C	HIS	825	-1.025	-11.131	-13.613	1.00	51.18
ATCM	5658	O	HIS	825	-2.480	-11.154	-12.038	1.00	51.01
ATCM	5659	N	ILE	825	-1.120	-9.987	-14.055	1.00	50.05
ATCM	5660	CA	ILE	825	-1.566	-8.689	-13.516	1.00	48.19
ATCM	5661	CB	ILE	825	-0.883	-7.510	-14.030	1.00	48.89
ATCM	5662	CG2	ILE	825	0.031	-7.611	-14.078	1.00	50.27
ATCM	5663	CG1	ILE	825	-1.150	-7.484	-15.705	1.00	44.07
ATCM	5664	CD1	ILE	825	-0.762	-6.173	-16.460	1.00	47.09
ATCM	5665	C	ILE	825	-3.777	-8.531	-13.640	1.00	46.15
ATCM	5666	O	ILE	825	-1.007	-9.113	-14.520	1.00	45.11
ATCM	5667	N	PRO	827	-3.678	-7.314	-12.758	1.00	44.17
ATCM	5668	CD	PRO	827	-5.097	-6.921	-11.700	1.00	43.05
ATCM	5669	CA	PRO	827	-5.114	-7.485	-12.780	1.00	41.13
ATCM	5670	CB	PRO	827	-5.144	-6.593	-11.560	1.00	44.15
ATCM	5671	CG	PRO	827	-4.513	-5.941	-13.457	1.00	41.19
ATCM	5672	C	PRO	827	-5.613	-6.849	-14.073	1.00	41.01
ATCM	5673	O	PRO	827	-4.678	-6.137	-14.757	1.00	41.15
ATCM	5674	N	LYS	828	-6.884	-7.116	-14.401	1.00	31.01
ATCM	5675	CA	LYS	828	-7.003	-6.180	-15.610	1.00	31.19
ATCM	5676	CB	LYS	828	-8.076	-6.986	-15.881	1.00	40.08
ATCM	5677	CG	LYS	828	-9.116	-6.833	-16.124	1.00	40.06
ATCM	5678	CD	LYS	828	-8.839	-5.380	-15.483	1.00	40.07
ATCM	5679	CE	LYS	828	-9.837	-11.019	-16.103	1.00	41.07
ATCM	5680	NZ	LYS	828	-8.784	-11.062	-15.700	1.00	44.01
ATCM	5681	C	LYS	828	-7.491	-5.069	-18.787	1.00	33.78
ATCM	5682	O	LYS	828	-7.766	-4.682	-16.847	1.00	33.00
ATCM	5683	N	PHE	829	-7.885	-4.664	-14.003	1.00	23.05
ATCM	5684	CA	PHE	829	-7.826	-5.133	-14.625	1.00	26.02
ATCM	5685	CB	PHE	829	-7.861	-5.332	-14.860	1.00	28.04
ATCM	5686	CG	PHE	829	-7.835	-5.154	-12.117	1.00	26.06
ATCM	5687	CD1	PHE	829	-6.861	-5.023	-11.884	1.00	23.04
ATCM	5688	CE2	PHE	829	-7.813	-5.782	-11.075	1.00	23.09
ATCM	5689	CE1	PHE	829	-5.347	-2.739	-10.314	1.00	23.53
ATCM	5690	CE2	PHE	829	-7.137	-4.182	-10.112	1.00	23.40
ATCM	5691	CZ	PHE	829	-6.171	-3.897	-9.123	1.00	26.05
ATCM	5692	C	PHE	829	-5.123	-2.332	-14.783	1.00	26.03
ATCM	5693	O	PHE	829	-5.766	-1.136	-15.910	1.00	26.03
ATCM	5694	N	ALA	830	-4.111	-3.154	-14.661	1.00	24.63
ATCM	5695	CA	ALA	830	-3.123	-2.736	-14.613	1.00	23.28
ATCM	5696	CB	ALA	830	-2.643	-3.353	-13.833	1.00	21.73
ATCM	5697	C	ALA	830	-2.137	-2.334	-16.129	1.00	22.75
ATCM	5698	O	ALA	830	-3.412	-3.839	-15.063	1.00	21.73
ATCM	5699	N	LYS	831	-1.842	-2.316	-16.495	1.00	21.73
ATCM	5700	CA	LYS	831	-1.100	-2.441	-17.401	1.00	20.75
ATCM	5701	CB	LYS	831	-1.694	-1.325	-18.731	1.00	22.17
ATCM	5702	CG	LYS	831	-0.465	-3.255	-20.974	1.00	22.17
ATCM	5703	CD	LYS	831	-1.486	-0.135	-20.759	1.00	24.84
ATCM	5704	CE	LYS	831	-0.669	0.000	-22.227	1.00	27.33
ATCM	5705	NZ	LYS	831	-1.132	1.114	-23.117	1.00	27.97
ATCM	5706	C	LYS	831	0.301	-3.345	-17.665	1.00	20.84
ATCM	5707	O	LYS	831	0.432	-1.515	-18.924	1.00	20.39
ATCM	5708	N	ASN	832	0.485	-3.286	-19.387	1.00	20.11
ATCM	5709	CA	ASN	832	2.162	-4.075	-18.393	1.00	20.06
ATCM	5710	CB	ASN	832	2.115	-4.696	-18.715	1.00	19.73
ATCM	5711	CG	ASN	832	4.479	-4.820	-13.755	1.00	16.21
ATCM	5712	CD1	ASN	832	1.145	-3.832	-18.897	1.00	21.51
ATCM	5713	ND2	ASN	832	4.821	-6.045	-18.653	1.00	18.07
ATCM	5714	C	ASN	832	2.023	-2.323	-19.460	1.00	20.14
ATCM	5715	O	ASN	832	1.003	-3.333	-20.653	1.00	19.09
ATCM	5716	N	THR	833	1.083	-1.132	-18.057	1.00	29.07
ATCM	5717	CA	PHE	833	1.584	-0.102	-20.034	1.00	29.91
ATCM	5718	CB	PHE	833	1.667	1.101	-19.418	1.00	21.37
ATCM	5719	CG	PHE	833	1.176	1.619	-19.325	1.00	21.07
ATCM	5720	CD1	PHE	833	1.581	1.505	-18.075	1.00	21.53
ATCM	5721	CD2	PHE	833	1.679	2.557	-20.228	1.00	29.96
ATCM	5722	CE1	PHE	833	0.208	1.942	-17.919	1.00	23.27
ATCM	5723	CE2	PHE	833	0.667	2.997	-20.081	1.00	22.83
ATCM	5724	CZ	PHE	833	-0.545	3.689	-18.926	1.00	21.37
ATCM	5725	C	PHE	833	-5.189	1.873	-20.153	1.00	11.48
ATCM	5726	O	PHE	833	-5.187	1.101	-21.153	1.00	12.01

ATOM	5727	N	LEU	834	5.919	-1.201	-19.793	1.00	19.73
ATOM	5728	CA	LEU	834	7.289	-1.541	-20.176	1.00	20.43
ATOM	5729	CB	LEU	834	8.037	-2.176	-16.990	1.00	19.89
ATOM	5730	CG	LEU	834	9.493	-2.506	-19.274	1.00	18.42
ATOM	5731	CD1	LEU	834	10.317	-1.390	-19.481	1.00	21.54
ATOM	5732	CD2	LEU	834	10.064	-3.383	-18.115	1.00	20.29
ATOM	5733	C	LEU	834	7.301	-2.513	-21.343	1.00	22.45
ATOM	5734	O	LEU	834	8.221	-2.506	-22.163	1.00	22.86
ATOM	5735	N	ALA	835	6.284	-3.304	-21.410	1.00	25.29
ATOM	5736	CA	ALA	835	6.190	-4.332	-22.504	1.00	29.51
ATOM	5737	CB	ALA	835	4.968	-5.231	-22.310	1.00	30.38
ATOM	5738	C	ALA	835	6.684	-5.582	-23.823	1.00	32.18
ATOM	5739	O	ALA	835	6.771	-3.911	-24.780	1.00	32.05
ATOM	5740	N	GLU	836	5.207	-2.581	-23.843	1.00	34.79
ATOM	5741	CA	GLU	836	4.977	-1.740	-25.010	1.00	38.46
ATOM	5742	CB	GLU	836	4.016	-0.585	-24.004	1.00	41.47
ATOM	5743	CG	GLU	836	2.811	-1.015	-24.789	1.00	45.54
ATOM	5744	CD	GLU	836	1.726	-1.380	-23.410	1.00	47.55
ATOM	5745	OE1	GLU	836	2.091	-2.308	-26.100	1.00	48.85
ATOM	5746	OE2	GLU	836	0.671	-0.743	-23.700	1.00	48.60
ATOM	5747	C	GLU	836	6.104	-1.101	-25.480	1.00	58.72
ATOM	5748	O	GLU	836	6.690	-1.219	-26.610	1.00	61.00
ATOM	5749	N	PRP	837	6.990	-0.504	-24.000	1.00	59.17
ATOM	5750	CA	PRP	837	8.284	0.002	-24.706	1.00	56.61
ATOM	5751	CB	PRP	837	8.505	1.301	-24.000	1.00	16.83
ATOM	5752	CG1	PRP	837	9.822	1.800	-24.706	1.00	58.80
ATOM	5753	CG2	PRP	837	8.111	1.006	-22.400	1.00	15.74
ATOM	5754	C	PRP	837	9.393	-0.000	-24.706	1.00	56.87
ATOM	5755	O	PRP	837	9.100	-2.103	-24.000	1.00	58.89
ATOM	5756	N	GLY	838	10.546	-0.400	-24.000	1.00	53.88
ATOM	5757	CA	GLY	838	11.000	-1.202	-24.000	1.00	51.87
ATOM	5758	C	GLY	838	12.514	-0.004	-24.000	1.00	18.89
ATOM	5759	O	GLY	838	13.484	-1.207	-24.000	1.00	18.70
ATOM	5760	N	ASP	839	12.176	0.911	-22.100	1.00	18.03
ATOM	5761	CA	ASP	839	12.892	1.276	-21.100	1.00	17.44
ATOM	5762	CB	ASP	839	11.574	2.410	-21.000	1.00	12.86
ATOM	5763	CG	ASP	839	14.173	3.301	-21.000	1.00	15.16
ATOM	5764	OD1	ASP	839	17.476	4.300	-21.000	1.00	16.08
ATOM	5765	OD2	ASP	839	15.347	3.101	-21.000	1.00	10.04
ATOM	5766	C	ASP	839	11.886	1.714	-20.000	1.00	14.78
ATOM	5767	O	ASP	839	10.806	2.203	-21.000	1.00	14.81
ATOM	5768	N	ILE	840	14.174	1.500	-19.000	1.00	12.68
ATOM	5769	CA	ILE	840	13.413	1.932	-17.000	1.00	19.45
ATOM	5770	CB	ILE	840	11.087	1.005	-16.000	1.00	17.83
ATOM	5771	CG2	ILE	840	11.244	2.102	-15.000	1.00	17.93
ATOM	5772	CG1	ILE	840	12.149	0.101	-16.000	1.00	18.15
ATOM	5773	CD1	ILE	840	12.360	-0.302	-14.000	1.00	21.02
ATOM	5774	C	ILE	840	11.034	3.402	-17.000	1.00	18.92
ATOM	5775	O	ILE	840	9.109	3.703	-17.000	1.00	18.54
ATOM	5776	N	ARG	841	11.897	1.300	-17.000	1.00	19.90
ATOM	5777	CA	ARG	841	11.696	5.702	-14.000	1.00	19.12
ATOM	5778	CB	ARG	841	12.901	6.500	-18.000	1.00	18.56
ATOM	5779	CG	ARG	841	13.814	6.503	-16.000	1.00	20.62
ATOM	5780	CD	ARG	841	15.181	7.167	-17.000	1.00	21.49
ATOM	5781	NE	ARG	841	15.862	7.303	-15.000	1.00	21.31
ATOM	5782	CZ	ARG	841	15.317	6.246	-15.000	1.00	22.30
ATOM	5783	NH1	ARG	841	15.360	5.000	-15.000	1.00	21.26
ATOM	5784	NH2	ARG	841	16.914	6.101	-13.000	1.00	22.06
ATOM	5785	C	ARG	841	10.743	5.937	-19.000	1.00	18.94
ATOM	5786	O	ARG	841	9.842	6.000	-19.000	1.00	17.46
ATOM	5787	N	ASA	842	10.318	5.162	-20.000	1.00	19.39
ATOM	5788	CA	ASA	842	10.008	5.436	-21.000	1.00	20.59
ATOM	5789	CB	ASA	842	10.516	4.079	-21.000	1.00	20.86
ATOM	5790	C	ASA	842	8.638	4.001	-21.000	1.00	20.77
ATOM	5791	O	ASA	842	7.614	5.102	-21.000	1.00	22.41
ATOM	5792	N	ASA	843	8.591	3.002	-20.000	1.00	19.81
ATOM	5793	CA	ASA	843	7.300	3.000	-19.000	1.00	17.80
ATOM	5794	CB	ASA	843	7.506	2.046	-19.000	1.00	19.09
ATOM	5795	C	ASA	843	6.509	4.321	-18.000	1.00	19.75
ATOM	5796	O	ASA	843	5.300	4.411	-19.000	1.00	19.71
ATOM	5797	N	VAL	844	7.259	5.045	-13.000	1.00	17.77
ATOM	5798	CA	VAL	844	6.647	6.000	-12.000	1.00	17.43
ATOM	5799	CB	VAL	844	7.683	6.000	-16.000	1.00	15.55
ATOM	5800	CD1	VAL	844	7.074	7.786	-15.000	1.00	18.17
ATOM	5801	CD2	VAL	844	8.113	5.545	-15.000	1.00	19.09
ATOM	5802	C	VAL	844	6.000	7.100	-16.000	1.00	18.00
ATOM	5803	O	VAL	844	4.000	8.000	-17.000	1.00	18.00

ATOM	5804	N	ARG	845	6.817	7.618	-19.024	1.00	23.79
ATOM	5805	CA	ARG	845	6.835	8.695	-19.876	1.00	21.40
ATOM	5806	CB	ARG	845	7.394	9.118	-20.886	1.00	23.26
ATOM	5807	CG	ARG	845	8.631	9.750	-20.256	1.00	24.31
ATOM	5808	CD	ARG	845	9.502	10.433	-21.206	1.00	25.50
ATOM	5809	NE	ARG	845	10.136	9.479	-22.217	1.00	25.46
ATOM	5810	CZ	ARG	845	11.194	8.852	-22.004	1.00	26.44
ATOM	5811	NH1	ARG	845	11.976	9.131	-20.899	1.00	27.41
ATOM	5812	NH2	ARG	845	11.787	8.038	-22.908	1.00	24.69
ATOM	5813	C	ARG	845	5.081	8.281	-20.613	1.00	21.24
ATOM	5814	O	ARG	845	4.199	9.053	-10.723	1.00	19.90
ATOM	5815	N	GLN	846	5.029	7.944	-21.169	1.00	20.99
ATOM	5816	CA	GLN	846	3.842	6.544	-21.816	1.00	20.30
ATOM	5817	CB	GLN	846	4.149	5.167	-22.419	1.00	23.28
ATOM	5818	CG	GLN	846	2.752	4.529	-23.042	1.00	31.74
ATOM	5819	CD	GLN	846	3.280	3.266	-23.569	1.00	55.73
ATOM	5820	OE1	GLN	846	3.847	5.334	-24.004	1.00	38.70
ATOM	5821	NH2	GLN	846	2.873	1.117	-23.870	1.00	27.15
ATOM	5822	C	GLN	846	2.832	6.466	-20.889	1.00	19.10
ATOM	5823	O	GLN	846	1.837	6.907	-21.140	1.00	18.61
ATOM	5824	N	TYR	847	2.861	6.117	-19.659	1.00	18.58
ATOM	5825	CA	TYR	847	1.899	6.041	-18.646	1.00	18.17
ATOM	5826	CB	TYR	847	2.811	5.446	-17.795	1.00	17.16
ATOM	5827	CG	TYR	847	1.844	5.507	-16.183	1.00	14.88
ATOM	5828	CD1	TYR	847	0.837	5.169	-16.157	1.00	13.94
ATOM	5829	CD2	TYR	847	-0.810	5.237	-15.186	1.00	14.43
ATOM	5831	CE2	TYR	847	1.814	5.157	-14.935	1.00	14.10
ATOM	5832	CH	TYR	847	0.850	5.237	-13.847	1.00	13.19
ATOM	5832	CH	TYR	847	-0.811	5.334	-13.873	1.00	14.15
ATOM	5833	OH	TYR	847	-1.830	5.286	-12.876	1.00	11.46
ATOM	5834	C	TYR	847	1.832	5.467	-18.411	1.00	17.79
ATOM	5835	O	TYR	847	0.845	5.846	-18.119	1.00	18.16
ATOM	5836	N	MET	848	2.117	5.431	-18.389	1.00	19.31
ATOM	5837	CA	MET	848	1.895	5.817	-18.049	1.00	19.23
ATOM	5838	CB	MET	848	2.846	1.879	-17.941	1.00	21.20
ATOM	5839	CG	MET	848	3.124	1.848	-16.649	1.00	21.47
ATOM	5840	SD	MET	848	5.474	11.648	-16.716	1.00	21.85
ATOM	5841	CH	MET	848	5.139	1.839	-16.846	1.00	23.03
ATOM	5842	C	MET	848	0.841	1.834	-19.243	1.00	19.63
ATOM	5843	O	MET	848	-0.836	1.832	-19.475	1.00	19.35
ATOM	5844	N	ALA	849	1.849	1.851	-20.446	1.00	23.45
ATOM	5845	CA	ALA	849	0.845	1.847	-21.641	1.00	21.76
ATOM	5846	CB	ALA	849	1.847	1.839	-22.844	1.00	23.70
ATOM	5847	C	ALA	849	-0.841	2.837	-21.842	1.00	21.08
ATOM	5848	O	ALA	849	-1.839	1.845	-22.149	1.00	22.23
ATOM	5849	N	GLU	850	-0.840	2.835	-21.741	1.00	13.51
ATOM	5850	CA	GLU	850	-1.846	2.833	-21.940	1.00	21.22
ATOM	5851	CB	GLU	850	-1.851	2.819	-21.977	1.00	23.03
ATOM	5852	CG	GLU	850	-1.841	3.780	-23.281	1.00	21.40
ATOM	5853	CD	GLU	850	-0.847	4.282	-23.355	1.00	22.09
ATOM	5854	OE1	GLU	850	-1.892	3.593	-22.783	1.00	21.56
ATOM	5855	OE2	GLU	850	-0.124	3.292	-24.026	1.00	27.29
ATOM	5856	C	GLU	850	-3.875	3.168	-20.942	1.00	26.17
ATOM	5857	O	GLU	850	-4.868	2.847	-21.211	1.00	20.44
ATOM	5858	N	VAL	851	-2.866	3.074	-19.745	1.00	20.20
ATOM	5859	CA	VAL	851	-3.842	3.867	-18.712	1.00	19.55
ATOM	5860	CB	VAL	851	-2.895	3.862	-17.712	1.00	19.03
ATOM	5861	CG1	VAL	851	-3.837	3.873	-16.787	1.00	15.86
ATOM	5862	CG2	VAL	851	-2.863	3.870	-16.840	1.00	17.16
ATOM	5863	C	VAL	851	-4.866	3.875	-19.164	1.00	18.95
ATOM	5864	O	VAL	851	-5.889	3.843	-19.167	1.00	17.31
ATOM	5865	N	GLY	852	-3.824	3.870	-19.746	1.00	20.35
ATOM	5866	CA	GLY	852	-3.818	3.873	-18.845	1.00	22.19
ATOM	5867	CB	GLY	852	-2.848	3.877	-20.233	1.00	24.34
ATOM	5868	CG	GLY	852	-3.875	3.876	-20.865	1.00	28.53
ATOM	5869	CH	GLY	852	-2.873	3.879	-20.470	1.00	30.66
ATOM	5870	CE1	GLY	852	-2.110	3.877	-20.837	1.00	35.44
ATOM	5871	CE2	GLY	852	-1.079	3.866	-19.480	1.00	31.33
ATOM	5872	C	GLY	852	-4.845	3.860	-21.186	1.00	22.60
ATOM	5873	O	GLY	852	-5.834	3.873	-21.176	1.00	21.59
ATOM	5874	N	SEP	853	-4.865	11.872	-21.964	1.00	23.09
ATOM	5875	CA	SEP	853	-5.894	11.449	-21.322	1.00	24.09
ATOM	5876	CB	SEP	853	-4.849	10.444	-24.405	1.00	26.77
ATOM	5877	CG	SEP	853	-3.858	11.717	-24.879	1.00	34.21
ATOM	5878	CH	SEP	853	-6.473	10.631	-23.162	1.00	23.46
ATOM	5879	C	SEP	853	-1.849	12.875	-21.874	1.00	21.19
ATOM	5880	N	GLY	854	-6.877	12.447	-21.171	1.00	20.77

ATOM	5881	CA	GLY	854	-7.752	9.131	-21.822	1.00	21.47
ATOM	5882	C	GLY	854	-7.620	7.744	-22.474	1.00	21.47
ATOM	5883	O	GLY	854	-8.552	6.947	-22.343	1.00	22.20
ATOM	5884	N	VAL	855	-6.472	7.453	-23.037	1.00	21.89
ATOM	5885	CA	VAL	855	-6.210	6.151	-22.636	1.00	22.73
ATOM	5886	CB	VAL	855	-4.671	6.155	-24.394	1.00	23.64
ATOM	5887	C#1	VAL	855	-4.521	4.744	-24.855	1.00	25.01
ATOM	5888	C#2	VAL	855	-4.967	7.037	-25.588	1.00	27.01
ATOM	5889	C	VAL	855	-6.160	5.071	-25.542	1.00	22.00
ATOM	5890	O	VAL	855	-6.532	3.923	-25.787	1.00	21.57
ATOM	5891	N	TYR	856	-5.132	5.448	-21.400	1.00	20.90
ATOM	5892	CA	TYR	856	-5.570	4.551	-20.232	1.00	19.68
ATOM	5893	CB	TYR	856	-4.033	4.376	-19.887	1.00	17.61
ATOM	5894	CS	TYR	856	-3.966	3.313	-18.739	1.00	18.21
ATOM	5895	CD1	TYR	856	-4.153	1.951	-18.913	1.00	17.91
ATOM	5896	CD1	TYR	856	-4.153	1.063	-17.849	1.00	17.54
ATOM	5897	CD2	TYR	856	-3.766	3.731	-17.474	1.00	19.23
ATOM	5898	CE2	TYR	856	-3.766	2.955	-16.719	1.00	16.11
ATOM	5899	CE1	TYR	856	-3.658	1.553	-16.510	1.00	18.59
ATOM	5900	CH	TYR	856	-1.035	0.876	-15.434	1.00	19.37
ATOM	5901	C	TYR	856	-6.138	5.195	-14.048	1.00	14.18
ATOM	5902	O	TYR	856	-5.031	6.360	-14.715	1.00	13.54
ATOM	5903	N	PRO	857	-7.037	4.435	-13.339	1.00	21.09
ATOM	5904	CD	PRO	857	-7.037	4.358	-13.039	1.00	20.43
ATOM	5905	CA	PRO	857	-7.037	3.534	-13.331	1.00	22.15
ATOM	5906	CB	PRO	857	-7.037	2.528	-13.119	1.00	23.91
ATOM	5907	CG	PRO	857	-8.034	3.724	-16.794	1.00	24.19
ATOM	5908	C	PRO	857	-8.111	2.560	-13.734	1.00	21.63
ATOM	5909	O	PRO	857	-7.037	3.670	-13.330	1.00	23.21
ATOM	5910	N	GLY	858	-8.135	1.797	-12.338	1.00	24.37
ATOM	5911	CA	GLY	858	-7.143	1.541	-11.834	1.00	24.39
ATOM	5912	C	GLY	858	-10.130	0.719	-11.332	1.00	23.33
ATOM	5913	O	GLY	858	-10.130	0.297	-10.112	1.00	21.37
ATOM	5914	N	GLU	859	-11.165	0.491	-12.105	1.00	25.15
ATOM	5915	CA	GLU	859	-11.144	-0.342	-11.101	1.00	26.49
ATOM	5916	CB	GLU	859	-1.135	-0.510	-13.151	1.00	31.34
ATOM	5917	CG	GLU	859	-14.445	-1.539	-12.398	1.00	34.32
ATOM	5918	CD	GLU	859	-1.130	-0.640	-11.442	1.00	37.32
ATOM	5919	CE1	GLU	859	-1.135	-1.333	-11.443	1.00	40.37
ATOM	5920	CE2	GLU	859	-11.384	0.517	-11.787	1.00	27.73
ATOM	5921	C	GLU	859	-11.111	-1.610	-11.312	1.00	28.31
ATOM	5922	O	GLU	859	-12.385	-2.207	-10.446	1.00	28.31
ATOM	5923	N	GLU	860	-1.134	-2.101	-11.779	1.00	26.15
ATOM	5924	CA	GLU	860	-11.385	-3.448	-11.313	1.00	31.44
ATOM	5925	CB	GLU	860	-2.116	-3.851	-12.119	1.00	33.44
ATOM	5926	CG	GLU	860	-3.977	-3.103	-13.593	1.00	41.38
ATOM	5927	CD	GLU	860	-2.347	-2.844	-13.251	1.00	43.62
ATOM	5928	CE1	GLU	860	-1.599	-1.837	-12.525	1.00	44.99
ATOM	5929	CE2	GLU	860	-10.333	-1.336	-24.347	1.00	44.03
ATOM	5930	C	GLU	860	-10.867	-3.445	-19.322	1.00	31.62
ATOM	5931	O	GLU	860	-10.957	-4.434	-19.177	1.00	30.70
ATOM	5932	N	HIS	861	-0.468	-2.236	-19.316	1.00	28.81
ATOM	5933	CA	HIS	861	-9.137	-2.109	-17.811	1.00	27.39
ATOM	5934	CB	HIS	861	-7.434	-1.130	-17.393	1.00	25.01
ATOM	5935	CG	HIS	861	-6.871	-1.344	-18.828	1.00	24.31
ATOM	5936	CD2	HIS	861	-6.519	-0.508	-19.880	1.00	22.32
ATOM	5937	ND1	HIS	861	-6.036	-2.432	-18.815	1.00	25.32
ATOM	5938	CE1	HIS	861	-5.189	-2.349	-18.819	1.00	22.41
ATOM	5939	NE2	HIS	861	-5.178	-1.197	-20.713	1.00	24.27
ATOM	5940	C	HIS	861	-10.135	-1.637	-17.141	1.00	27.60
ATOM	5941	O	HIS	861	-10.142	-1.305	-15.630	1.00	27.53
ATOM	5942	N	SEP	862	-11.317	-1.594	-15.612	1.00	26.94
ATOM	5943	CA	SEP	862	-12.120	-1.076	-14.834	1.00	27.85
ATOM	5944	CB	SEP	862	-13.145	0.038	-15.635	1.00	27.94
ATOM	5945	CG	SEP	862	-12.173	0.934	-18.113	1.00	29.11
ATOM	5946	C	SEP	862	-13.110	-1.130	-16.543	1.00	29.39
ATOM	5947	O	SEP	862	-13.134	-1.150	-17.253	1.00	28.74
ATOM	5948	N	PHE	863	-14.356	-1.536	-15.447	1.00	29.95
ATOM	5949	CA	PHE	863	-15.385	-2.642	-14.993	1.00	32.29
ATOM	5950	CB	PHE	863	-15.137	-1.141	-13.457	1.00	33.67
ATOM	5951	CG	PHE	863	-13.051	-3.058	-13.120	1.00	31.97
ATOM	5952	CD1	PHE	863	-12.012	-3.160	-12.587	1.00	31.07
ATOM	5953	CD2	PHE	863	-13.315	-5.134	-13.293	1.00	31.75
ATOM	5954	CE1	PHE	863	-11.717	-3.020	-12.231	1.00	30.36
ATOM	5955	CE2	PHE	863	-13.703	-5.985	-12.947	1.00	33.34
ATOM	5956	CE3	PHE	863	-11.135	-5.178	-13.411	1.00	33.33
ATOM	5957	C	PHE	863	-13.761	-3.137	-15.131	1.00	34.09

ATCM	5958	O	PHE	862	-16.819	-1.031	-15.651	1.00	34.45
ATCM	5959	N	HIS	864	-17.807	-2.959	-15.042	1.00	35.05
ATCM	5960	CA	HIS	864	-19.163	-2.465	-15.752	1.00	36.87
ATCM	5961	CB	HIS	864	-19.600	-2.700	-16.700	1.00	37.63
ATCM	5962	CS	HIS	864	-18.935	-1.749	-17.682	1.00	37.41
ATCM	5963	CD2	HIS	864	-18.064	-2.012	-18.688	1.00	38.23
ATCM	5964	ND1	HIS	864	-19.110	-0.435	-17.678	1.00	38.08
ATCM	5965	CE1	HIS	864	-18.468	0.133	-18.639	1.00	37.64
ATCM	5966	NE2	HIS	864	-17.712	-0.845	-19.276	1.00	37.77
ATCM	5967	C	HIS	864	-20.182	-3.147	-14.558	1.00	37.62
ATCM	5968	C	HIS	864	-21.218	-2.579	-14.068	1.00	38.24
ATCM	5969	CKT	HIS	864	-19.794	-4.260	-13.836	1.00	39.13
ATCM	5970	C1	FPL	865	-3.357	0.634	-5.025	1.00	39.96
ATCM	5971	C2	FPL	865	-3.550	1.896	-4.226	1.00	38.72
ATCM	5972	C2	FPL	865	-2.617	3.937	-4.749	1.00	39.62
ATCM	5973	C4	FPL	865	-5.003	2.343	-4.254	1.00	40.42
ATCM	5974	C1	FPL	865	-5.910	1.547	-3.384	1.00	45.23
ATCM	5975	C5	FPL	865	-3.211	1.539	-2.744	1.00	45.38
ATCM	5976	C5	FPL	865	-4.048	1.763	-1.836	1.00	46.31
ATCM	5977	C6	FPL	865	-1.355	1.181	-2.371	1.00	32.68
ATCM	5978	C3	FPL	865	-0.375	0.400	-3.112	1.00	33.31
ATCM	5979	C4	FPL	865	-1.620	0.816	-1.557	1.00	37.03
ATCM	5980	CR	MET	901	-12.711	-23.201	-0.113	1.00	60.32
ATCM	5981	CG	MET	901	-12.530	-23.152	-1.184	1.00	62.72
ATCM	5982	CD	MET	901	-10.331	-23.621	-1.474	1.00	65.31
ATCM	5983	CE	MET	901	-10.576	-23.061	-3.145	1.00	64.01
ATCM	5984	C	MET	901	-10.847	-23.140	-0.781	1.00	53.75
ATCM	5985	C	MET	901	-10.683	-23.183	-0.783	1.00	53.36
ATCM	5986	N	MET	901	-13.683	-23.466	-2.117	1.00	58.15
ATCM	5987	CA	MET	901	-12.764	-22.373	-0.331	1.00	59.43
ATCM	5988	N	LYS	902	-13.415	-21.194	-1.711	1.00	56.31
ATCM	5989	CA	LYS	902	-8.921	-21.379	-2.137	1.00	52.69
ATCM	5990	CB	LYS	902	-8.505	-22.596	-3.181	1.00	54.41
ATCM	5991	CG	LYS	902	-6.987	-22.462	-3.184	1.00	55.39
ATCM	5992	CD	LYS	902	-6.322	-21.347	-4.153	1.00	57.24
ATCM	5993	CE	LYS	902	-6.460	-21.431	-5.141	1.00	58.67
ATCM	5994	NZ	LYS	902	-5.862	-20.416	-6.135	1.00	59.28
ATCM	5995	C	LYS	902	-6.321	-19.345	-2.431	1.00	49.10
ATCM	5996	C	LYS	902	-6.488	-19.338	-3.434	1.00	49.44
ATCM	5997	N	PRO	903	-8.342	-19.365	-1.485	1.00	44.68
ATCM	5998	CD	PRO	903	-6.356	-17.671	-1.635	1.00	43.26
ATCM	5999	CB	PRO	903	-8.390	-19.432	-0.432	1.00	40.39
ATCM	6001	CG	PRO	903	-7.827	-18.731	0.015	1.00	41.14
ATCM	6002	C	PRO	903	-8.321	-17.314	-0.230	1.00	42.64
ATCM	6003	C	PRO	903	-10.316	-19.540	0.488	1.00	37.14
ATCM	6004	C	PRO	903	-10.457	-19.042	-0.115	1.00	35.87
ATCM	6004	N	THR	904	-10.175	-20.135	1.078	1.00	32.82
ATCM	6005	CA	THR	904	-11.434	-20.369	2.127	1.00	19.48
ATCM	6006	CB	THR	904	-11.504	-21.343	3.238	1.00	19.39
ATCM	6007	CG1	THR	904	-11.161	-22.764	2.365	1.00	16.97
ATCM	6008	CG2	THR	904	-12.373	-21.690	3.469	1.00	16.63
ATCM	6009	C	THR	904	-11.337	-19.073	2.050	1.00	13.40
ATCM	6010	C	THR	904	-11.966	-18.960	3.759	1.00	17.17
ATCM	6011	N	THR	905	-13.347	-18.541	2.075	1.00	13.09
ATCM	6012	CA	THR	905	-13.487	-17.303	3.478	1.00	13.38
ATCM	6013	CB	THR	905	-13.470	-18.121	4.710	1.00	13.55
ATCM	6014	CG1	THR	905	-14.342	-18.416	3.111	1.00	31.31
ATCM	6015	CG2	THR	905	-12.066	-18.873	4.136	1.00	31.52
ATCM	6016	C	THR	905	-14.894	-17.398	4.478	1.00	27.80
ATCM	6017	C	THR	905	-15.683	-17.180	3.710	1.00	26.37
ATCM	6018	N	ILE	906	-15.268	-16.370	4.483	1.00	28.35
ATCM	6019	CA	ILE	906	-16.621	-16.131	5.144	1.00	29.71
ATCM	6020	CB	ILE	906	-16.654	-15.873	5.561	1.00	30.43
ATCM	6021	CG1	ILE	906	-18.113	-15.081	6.119	1.00	29.83
ATCM	6022	CG2	ILE	906	-15.659	-13.641	6.136	1.00	32.37
ATCM	6023	CD1	ILE	906	-15.638	-11.183	7.551	1.00	34.53
ATCM	6024	C	ILE	906	-17.141	-13.505	4.111	1.00	32.13
ATCM	6025	C	ILE	906	-18.729	-13.673	4.334	1.00	29.90
ATCM	6026	N	SER	907	-17.140	-13.621	2.935	1.00	31.39
ATCM	6027	CA	SER	907	-18.144	-13.137	1.639	1.00	32.17
ATCM	6028	CB	SER	907	-17.146	-13.593	0.517	1.00	33.19
ATCM	6029	CG	SER	907	-16.935	-14.332	0.779	1.00	34.57
ATCM	6030	C	SER	907	-18.700	-13.544	1.537	1.00	32.33
ATCM	6031	C	SER	907	-19.860	-13.793	1.235	1.00	31.29
ATCM	6032	N	LEU	908	-17.777	-13.485	1.757	1.00	32.16
ATCM	6033	CA	LEU	908	-18.771	-13.403	1.753	1.00	31.87
ATCM	6034	CB	LEU	908	-18.783	-13.223	1.743	1.00	33.57

ATCM	6035	CG	LEU	908	-16.563	-21.785	0.966	1.00	35.17
ATCM	6036	CD1	LEU	908	-15.600	-22.812	1.107	1.00	34.73
ATCM	6037	CD2	LEU	908	-17.877	-22.441	0.175	1.00	36.87
ATCM	6038	C	LEU	908	-19.073	-20.457	2.580	1.00	30.86
ATCM	6039	D	LEU	908	-20.056	-21.947	2.225	1.00	31.03
ATCM	6040	N	LEU	909	-18.813	-20.176	3.465	1.00	29.63
ATCM	6041	CA	LEU	909	-18.705	-20.613	4.075	1.00	28.90
ATCM	6042	CB	LEU	909	-18.173	-20.219	6.200	1.00	26.59
ATCM	6043	CG	LEU	909	-17.743	-20.733	6.550	1.00	26.10
ATCM	6044	CD1	LEU	909	-17.476	-20.315	8.112	1.00	25.81
ATCM	6045	CD2	LEU	909	-17.771	-21.329	6.510	1.00	27.17
ATCM	6046	C	LEU	909	-21.109	-20.093	4.750	1.00	29.37
ATCM	6047	C	LEU	909	-23.042	-20.765	5.306	1.00	23.78
ATCM	6048	N	GLN	910	-21.148	-18.861	4.266	1.00	30.45
ATCM	6049	CA	GLN	910	-22.494	-18.234	4.900	1.00	33.43
ATCM	6050	CB	GLN	910	-22.346	-16.767	3.673	1.00	33.71
ATCM	6051	CG	GLN	910	-23.549	-15.919	3.636	1.00	37.45
ATCM	6052	CD	GLN	910	-24.345	-15.976	4.311	1.00	37.83
ATCM	6053	OE1	GLN	910	-25.073	-16.935	5.251	1.00	32.47
ATCM	6054	NE2	GLN	910	-24.142	-14.334	5.734	1.00	36.67
ATCM	6055	C	GLN	910	-23.225	-19.100	2.211	1.00	33.57
ATCM	6056	C	GLN	910	-24.445	-19.158	3.223	1.00	33.84
ATCM	6057	E	LYS	911	-22.471	-19.349	1.919	1.00	35.95
ATCM	6058	CA	LYS	911	-23.044	-20.164	0.811	1.00	36.68
ATCM	6059	CB	LYS	911	-21.947	-21.337	-0.169	1.00	38.54
ATCM	6060	CG	LYS	911	-22.440	-21.116	-1.473	1.00	41.44
ATCM	6061	CD	LYS	911	-21.484	-22.170	-2.110	1.00	42.22
ATCM	6062	OE	LYS	911	-20.210	-21.325	-2.532	1.00	41.36
ATCM	6063	NZ	LYS	911	-19.319	-22.313	-3.153	1.00	44.28
ATCM	6064	C	LYS	911	-23.448	-21.304	1.326	1.00	36.17
ATCM	6065	O	LYS	911	-24.545	-21.889	0.927	1.00	36.19
ATCM	6066	N	TYR	912	-22.747	-22.108	2.214	1.00	35.44
ATCM	6067	CA	TYR	912	-23.041	-23.407	1.789	1.00	34.78
ATCM	6068	CB	TYR	912	-21.945	-23.662	1.753	1.00	35.49
ATCM	6069	CG	TYR	912	-20.747	-24.422	1.091	1.00	37.41
ATCM	6070	CD1	TYR	912	-19.543	-24.628	1.620	1.00	38.67
ATCM	6071	OE1	TYR	912	-18.345	-25.159	1.217	1.00	39.93
ATCM	6072	CD2	TYR	912	-20.740	-24.766	1.737	1.00	38.60
ATCM	6073	NE2	TYR	912	-19.540	-25.199	1.227	1.00	40.26
ATCM	6074	NZ	TYR	912	-18.446	-25.493	1.871	1.00	43.33
ATCM	6075	OH	TYR	912	-17.310	-26.021	1.270	1.00	41.12
ATCM	6076	C	TYR	912	-24.343	-23.390	1.316	1.00	33.39
ATCM	6077	O	TYR	912	-25.138	-24.359	2.460	1.00	31.65
ATCM	6078	N	LYS	913	-24.663	-22.197	4.111	1.00	32.88
ATCM	6079	CA	LYS	913	-15.920	-22.202	4.036	1.00	35.58
ATCM	6080	CB	LYS	913	-25.414	-21.099	5.878	1.00	33.03
ATCM	6081	CG	LYS	913	-27.132	-20.898	6.697	1.00	32.07
ATCM	6082	CD	LYS	913	-27.072	-20.884	7.415	1.00	33.62
ATCM	6083	OE	LYS	913	-28.760	-19.761	8.616	1.00	35.34
ATCM	6084	NZ	LYS	913	-28.225	-19.120	9.841	1.00	36.41
ATCM	6085	C	LYS	913	-27.032	-21.086	3.878	1.00	37.48
ATCM	6086	O	LYS	913	-28.136	-22.656	4.073	1.00	37.96
ATCM	6087	N	GLN	914	-26.491	-21.346	2.873	1.00	40.52
ATCM	6088	CA	GLN	914	-27.431	-21.161	1.840	1.00	43.74
ATCM	6089	CB	GLN	914	-27.138	-20.122	0.745	1.00	45.66
ATCM	6090	CG	GLN	914	-27.115	-18.745	1.477	1.00	48.82
ATCM	6091	CD	GLN	914	-26.338	-17.695	0.345	1.00	51.41
ATCM	6092	OE1	GLN	914	-27.132	-17.405	-0.112	1.00	53.67
ATCM	6093	NE2	GLN	914	-25.738	-17.122	0.337	1.00	53.30
ATCM	6094	C	GLN	914	-28.227	-21.181	1.183	1.00	44.43
ATCM	6095	O	GLN	914	-29.457	-21.735	0.738	1.00	44.57
ATCM	6096	N	GLU	915	-27.158	-21.314	1.063	1.00	45.74
ATCM	6097	CA	GLU	915	-27.227	-21.617	0.118	1.00	46.13
ATCM	6098	CB	GLU	915	-26.726	-21.388	-0.245	1.00	47.35
ATCM	6099	CG	GLU	915	-25.116	-21.913	-1.243	1.00	51.08
ATCM	6100	CD	GLU	915	-24.113	-21.289	-1.917	1.00	52.13
ATCM	6101	OE1	GLU	915	-23.150	-21.711	-1.225	1.00	53.11
ATCM	6102	OE2	GLU	915	-24.107	-21.181	-1.157	1.00	53.18
ATCM	6103	C	GLU	915	-27.654	-23.625	1.463	1.00	45.27
ATCM	6104	O	GLU	915	-27.711	-21.687	1.177	1.00	45.44
ATCM	6105	N	LYS	916	-27.874	-25.243	1.637	1.00	44.15
ATCM	6106	CA	LYS	916	-28.206	-26.138	1.792	1.00	43.28
ATCM	6107	CB	LYS	916	-29.587	-26.754	1.558	1.00	45.67
ATCM	6108	CG	LYS	916	-29.711	-25.741	1.545	1.00	46.17
ATCM	6109	CD	LYS	916	-29.901	-25.112	4.601	1.00	46.13
ATCM	6110	OE	LYS	916	-31.968	-23.541	4.871	1.00	51.00
ATCM	6111	NZ	LYS	916	-31.146	-24.182	4.167	1.00	51.18

AT-M	6110	C	LYS	916	-27.177	-27.249	3.976	1.00	42.34
AT-M	6110	C	LYS	916	-27.519	-28.359	4.382	1.00	42.68
AT-M	6114	N	LYS	917	-25.918	-26.949	3.673	1.00	40.67
AT-M	6115	CA	LYS	917	-24.844	-27.928	3.827	1.00	38.46
AT-M	6116	CB	LYS	917	-23.861	-27.841	3.654	1.00	39.13
AT-M	6117	CG	LYS	917	-22.696	-28.814	2.781	1.00	41.58
AT-M	6118	CD	LYS	917	-21.540	-28.465	1.351	1.00	44.05
AT-M	6119	CE	LYS	917	-21.903	-28.642	0.487	1.00	46.51
AT-M	6120	NE	LYS	917	-20.749	-28.300	-0.494	1.00	48.27
AT-M	6121	C	LYS	917	-24.095	-27.675	5.123	1.00	36.66
AT-M	6122	C	LYS	917	-23.297	-26.341	5.111	1.00	35.67
AT-M	6123	N	ARG	918	-24.355	-28.304	6.129	1.00	32.82
AT-M	6124	CA	ARG	918	-23.639	-28.272	7.420	1.00	31.81
AT-M	6125	CB	ARG	918	-24.297	-29.362	8.426	1.00	30.86
AT-M	6126	CG	ARG	918	-25.668	-28.426	8.931	1.00	32.12
AT-M	6127	CD	ARG	918	-26.346	-29.457	9.826	1.00	23.25
AT-M	6128	NE	ARG	918	-26.313	-31.121	9.984	1.00	35.83
AT-M	6129	CE	ARG	918	-27.708	-32.301	9.944	1.00	33.33
AT-M	6130	NE1	ARG	918	-28.240	-31.341	10.747	1.00	33.73
AT-M	6131	NE2	ARG	918	-28.071	-33.036	8.801	1.00	35.50
AT-M	6132	C	ARG	918	-23.191	-28.724	7.142	1.00	29.61
AT-M	6133	C	ARG	918	-21.792	-29.361	6.337	1.00	29.96
AT-M	6134	N	PHE	919	-21.363	-27.175	7.437	1.00	26.58
AT-M	6135	CA	PHE	919	-19.911	-27.890	7.738	1.00	24.02
AT-M	6136	CB	PHE	919	-19.363	-26.823	7.982	1.00	24.12
AT-M	6137	CG	PHE	919	-19.743	-25.359	7.771	1.00	23.99
AT-M	6138	CD1	PHE	919	-18.925	-24.920	8.769	1.00	22.22
AT-M	6139	CD2	PHE	919	-20.931	-24.691	7.159	1.00	23.25
AT-M	6140	CE1	PHE	919	-19.286	-23.457	9.110	1.00	22.28
AT-M	6141	CE2	PHE	919	-21.299	-23.528	8.137	1.00	23.01
AT-M	6142	CE	PHE	919	-20.475	-23.308	9.121	1.00	23.76
AT-M	6143	C	PHE	919	-19.205	-26.397	9.076	1.00	23.65
AT-M	6144	C	PHE	919	-19.679	-27.626	10.113	1.00	22.72
AT-M	6145	N	ALA	920	-18.071	-28.789	9.949	1.00	21.57
AT-M	6146	CA	ALA	920	-17.313	-29.628	10.178	1.00	19.22
AT-M	6147	CB	ALA	920	-16.709	-30.425	10.260	1.00	18.32
AT-M	6148	C	ALA	920	-16.213	-27.968	10.445	1.00	17.19
AT-M	6149	C	ALA	920	-15.645	-27.308	9.463	1.00	17.37
AT-M	6150	N	THR	921	-15.932	-27.644	11.701	1.00	17.33
AT-M	6151	CA	THR	921	-14.903	-26.662	12.071	1.00	17.37
AT-M	6152	CB	THR	921	-15.550	-25.358	12.531	1.00	20.30
AT-M	6153	CG1	THR	921	-16.349	-24.781	11.533	1.00	24.13
AT-M	6154	CG2	THR	921	-14.492	-24.372	12.939	1.00	27.64
AT-M	6155	C	THR	921	-14.091	-27.293	12.205	1.00	14.38
AT-M	6156	C	THR	921	-14.586	-28.182	13.391	1.00	13.30
AT-M	6157	N	ILE	922	-12.861	-26.843	13.424	1.00	13.81
AT-M	6158	CA	ILE	922	-12.054	-27.484	14.431	1.00	13.12
AT-M	6159	CB	ILE	922	-11.367	-28.224	13.941	1.00	15.52
AT-M	6160	CG2	ILE	922	-10.274	-28.341	12.925	1.00	15.80
AT-M	6161	CG1	ILE	922	-10.371	-29.331	15.102	1.00	15.54
AT-M	6162	CD1	ILE	922	-10.400	-30.953	14.734	1.00	25.56
AT-M	6163	C	ILE	922	-10.963	-26.514	15.640	1.00	15.33
AT-M	6164	C	ILE	922	-10.591	-25.355	14.375	1.00	13.71
AT-M	6165	N	THR	923	-10.513	-26.773	16.262	1.00	13.37
AT-M	6166	CA	THR	923	-9.475	-25.955	16.844	1.00	11.94
AT-M	6167	CB	THR	923	-9.471	-25.979	18.403	1.00	11.46
AT-M	6168	CG1	THR	923	-9.137	-27.294	18.866	1.00	14.02
AT-M	6169	CG2	THR	923	-10.842	-25.564	18.962	1.00	13.48
AT-M	6170	C	THR	923	-8.130	-26.494	16.358	1.00	11.94
AT-M	6171	C	THR	923	-8.010	-27.562	15.990	1.00	11.93
AT-M	6172	N	ALA	924	-7.133	-25.616	16.324	1.00	10.51
AT-M	6173	CA	ALA	924	-5.783	-25.775	15.128	1.00	9.27
AT-M	6174	CB	ALA	924	-5.034	-25.391	14.590	1.00	10.60
AT-M	6175	C	ALA	924	-4.376	-24.846	16.554	1.00	9.13
AT-M	6176	C	ALA	924	-3.742	-23.791	16.778	1.00	9.48
AT-M	6177	N	TYR	925	-3.374	-25.367	16.095	1.00	8.69
AT-M	6178	CA	TYR	925	-2.757	-24.163	17.678	1.00	10.52
AT-M	6179	CB	TYR	925	-2.399	-24.799	19.143	1.00	9.34
AT-M	6180	CG	TYR	925	-4.188	-25.907	19.367	1.00	10.81
AT-M	6181	CD1	TYR	925	-4.615	-26.323	19.842	1.00	11.77
AT-M	6182	CD2	TYR	925	-5.871	-25.835	20.373	1.00	12.82
AT-M	6183	CE2	TYR	925	-5.951	-23.982	20.968	1.00	11.21
AT-M	6184	CE1	TYR	925	-6.315	-24.269	20.603	1.00	10.34
AT-M	6185	CE	TYR	925	-6.711	-25.532	20.752	1.00	12.11
AT-M	6186	OH	TYR	925	-7.945	-25.899	21.173	1.00	13.17
AT-M	6187	C	TYR	925	-1.326	-24.613	17.173	1.00	9.54
AT-M	6188	C	TYR	925	-1.453	-24.117	17.344	1.00	9.17

ATCM	6189	N	ASP	926	-1.106	-29.447	16.161	1.00	8.26
ATCM	6190	CA	ASP	926	0.250	-29.626	15.672	1.00	10.92
ATCM	6191	CB	ASP	926	0.971	-29.694	16.509	1.00	11.44
ATCM	6192	CD	ASP	926	0.378	-28.093	16.328	1.00	11.32
ATCM	6193	CD1	ASP	926	0.546	-28.048	15.247	1.00	11.50
ATCM	6194	CD2	ASP	926	-0.251	-28.041	17.274	1.00	15.55
ATCM	6195	C	ASP	926	0.283	-27.947	14.186	1.00	11.52
ATCM	6196	O	ASP	926	-0.748	-28.042	13.581	1.00	13.19
ATCM	6197	H	TYR	927	1.477	-28.939	13.610	1.00	9.04
ATCM	6198	CA	TYR	927	1.693	-29.236	12.190	1.00	9.91
ATCM	6199	CB	TYR	927	3.183	-29.007	11.848	1.00	12.47
ATCM	6200	CD	TYR	927	3.599	-29.536	10.446	1.00	13.33
ATCM	6201	CD1	TYR	927	3.408	-29.345	9.382	1.00	15.77
ATCM	6202	CD2	TYR	927	3.776	-29.246	8.072	1.00	17.93
ATCM	6203	C	TYR	927	4.176	-27.841	10.381	1.00	14.44
ATCM	6204	CE	TYR	927	4.548	-28.337	9.042	1.00	15.72
ATCM	6205	CH	TYR	927	4.345	-27.542	7.951	1.00	18.75
ATCM	6206	CH	TYR	927	4.694	-28.044	6.708	1.00	20.14
ATCM	6207	C	TYR	927	1.238	-27.543	11.745	1.00	12.76
ATCM	6208	C	TYR	927	0.444	-27.702	10.741	1.00	12.54
ATCM	6209	N	SER	928	1.753	-28.643	12.416	1.00	11.45
ATCM	6210	CA	SER	928	1.468	-29.347	12.937	1.00	11.63
ATCM	6211	CB	SER	928	3.167	-29.823	13.077	1.00	12.68
ATCM	6212	CD	SER	928	3.577	-30.869	12.835	1.00	14.47
ATCM	6213	C	SER	928	0.002	-29.341	11.930	1.00	11.87
ATCM	6214	O	SER	928	-0.416	-29.342	11.038	1.00	11.46
ATCM	6215	H	PHE	929	-0.786	-29.074	12.997	1.00	10.71
ATCM	6216	CA	PHE	929	-2.292	-29.117	12.932	1.00	9.78
ATCM	6217	CB	PHE	929	-2.852	-29.167	14.319	1.00	11.86
ATCM	6218	CD	PHE	929	-2.628	-29.104	13.132	1.00	10.76
ATCM	6219	CD1	PHE	929	-1.801	-29.170	16.063	1.00	9.67
ATCM	6220	CD2	PHE	929	-3.183	-29.045	14.879	1.00	13.40
ATCM	6221	CE	PHE	929	-1.325	-29.166	16.737	1.00	11.64
ATCM	6222	CE2	PHE	929	-3.122	-29.838	15.339	1.00	10.49
ATCM	6223	CH	PHE	929	-2.352	-29.061	16.465	1.00	10.50
ATCM	6224	C	PHE	929	-2.956	-29.459	11.935	1.00	10.59
ATCM	6225	O	PHE	929	-3.871	-29.430	11.180	1.00	10.80
ATCM	6226	N	ALA	930	-2.379	-29.110	11.798	1.00	10.19
ATCM	6227	CA	ALA	930	-1.163	-29.421	10.135	1.00	10.49
ATCM	6228	CB	ALA	930	-2.724	-29.359	10.640	1.00	10.94
ATCM	6229	CD	ALA	930	-2.023	-29.321	9.427	1.00	11.83
ATCM	6230	C	ALA	930	-1.401	-27.740	8.172	1.00	12.93
ATCM	6231	H	LYS	931	-1.407	-29.301	9.192	1.00	11.22
ATCM	6232	CA	LYS	931	-1.425	-29.304	7.494	1.00	12.92
ATCM	6233	CB	LYS	931	0.075	-29.242	7.897	1.00	13.90
ATCM	6234	CD	LYS	931	0.623	-29.093	6.659	1.00	19.23
ATCM	6235	CD1	LYS	931	0.716	-29.093	5.467	1.00	22.53
ATCM	6236	CD2	LYS	931	1.677	-29.428	4.415	1.00	26.66
ATCM	6237	CH	LYS	931	1.255	-29.176	3.415	1.00	26.76
ATCM	6238	C	LYS	931	-2.227	-29.198	2.846	1.00	12.48
ATCM	6239	O	LYS	931	-3.737	-29.428	6.543	1.00	14.08
ATCM	6240	N	LEU	932	-2.326	-29.129	8.672	1.00	11.21
ATCM	6241	CA	LEU	932	-3.071	-29.173	8.557	1.00	11.84
ATCM	6242	CB	LEU	932	-2.965	-29.160	9.865	1.00	11.17
ATCM	6243	CD	LEU	932	-1.550	-29.485	9.354	1.00	11.63
ATCM	6244	CD1	LEU	932	-2.842	-29.109	10.946	1.00	10.37
ATCM	6245	CD2	LEU	932	-5.081	-29.433	10.059	1.00	13.21
ATCM	6246	C	LEU	932	-4.584	-29.991	8.212	1.00	12.85
ATCM	6247	O	LEU	932	-5.102	-29.611	5.309	1.00	14.10
ATCM	6248	N	PHE	933	-5.140	-29.119	2.913	1.00	13.43
ATCM	6249	CA	PHE	933	-6.538	-29.649	8.663	1.00	12.70
ATCM	6250	CB	PHE	933	-7.046	-29.670	9.691	1.00	12.50
ATCM	6251	CD	PHE	933	-6.939	-29.139	11.120	1.00	16.73
ATCM	6252	CD1	PHE	933	-7.061	-29.493	11.439	1.00	11.83
ATCM	6253	CD2	PHE	933	-6.788	-29.224	12.182	1.00	11.13
ATCM	6254	CH	PHE	933	-6.911	-29.931	12.744	1.00	11.61
ATCM	6255	CE	PHE	933	-6.672	-29.691	13.481	1.00	11.11
ATCM	6256	CZ	PHE	933	-6.758	-31.014	13.774	1.00	13.40
ATCM	6257	C	PHE	933	-6.786	-30.174	7.247	1.00	14.52
ATCM	6258	O	PHE	933	-7.675	-29.401	8.351	1.00	14.17
ATCM	6259	N	FLA	934	-6.010	-29.161	6.822	1.00	14.17
ATCM	6260	CA	FLA	934	-6.178	-28.607	5.448	1.00	16.13
ATCM	6261	CB	FLA	934	-5.177	-27.489	5.116	1.00	13.98
ATCM	6262	C	FLA	934	-6.033	-29.081	4.397	1.00	18.38
ATCM	6263	O	FLA	934	-6.344	-29.631	3.334	1.00	19.61
ATCM	6264	N	TRP	935	-5.134	-29.345	4.188	1.00	16.87
ATCM	6265	CA	TRP	935	-4.777	-31.034	3.478	1.00	17.17

ATCM	6266	CB	ASP	935	-3.611	-32.422	3.938	1.00	22.05
ATCM	6267	CS	ASP	935	-2.341	-31.618	3.716	1.00	24.16
ATCM	6268	OD1	ASP	935	-2.476	-30.459	3.258	1.00	28.99
ATCM	6269	OD2	ASP	935	-1.216	-32.155	4.001	1.00	24.81
ATCM	6270	C	ASP	935	-6.050	-32.583	3.407	1.00	21.14
ATCM	6271	C	ASP	935	-6.162	-33.112	2.918	1.00	21.57
ATCM	6272	N	GLU	936	-6.887	-32.370	4.441	1.00	21.31
ATCM	6273	CA	GLU	936	-8.117	-33.449	4.466	1.00	23.46
ATCM	6274	CB	GLU	936	-8.000	-34.119	5.880	1.00	22.13
ATCM	6275	CG	GLU	936	-7.196	-35.173	6.284	1.00	25.30
ATCM	6276	CD	GLU	936	-6.944	-36.134	5.181	1.00	26.05
ATCM	6277	DE1	GLU	936	-7.080	-36.127	4.664	1.00	27.13
ATCM	6278	DE2	GLU	936	-5.763	-36.418	4.890	1.00	25.11
ATCM	6279	C	GLU	936	-9.185	-37.127	4.080	1.00	23.86
ATCM	6280	C	GLU	936	-10.473	-38.367	3.813	1.00	23.01
ATCM	6281	N	GLY	937	-9.185	-37.404	3.466	1.00	24.48
ATCM	6282	CA	GLY	937	-10.517	-38.684	3.603	1.00	24.58
ATCM	6283	C	GLY	937	-11.165	-39.831	4.314	1.00	24.10
ATCM	6284	C	GLY	937	-12.126	-39.116	4.441	1.00	22.63
ATCM	6285	N	LEU	938	-10.014	-39.042	5.115	1.00	21.16
ATCM	6286	CA	LEU	938	-11.115	-39.117	5.115	1.00	22.14
ATCM	6287	CB	LEU	938	-10.044	-39.018	5.115	1.00	22.14
ATCM	6288	CG	LEU	938	-11.115	-39.015	5.115	1.00	24.49
ATCM	6289	CD1	LEU	938	-11.115	-39.000	5.115	1.00	20.46
ATCM	6290	CD2	LEU	938	-12.116	-39.116	5.115	1.00	22.65
ATCM	6291	C	LEU	938	-10.117	-39.119	5.115	1.00	22.32
ATCM	6292	C	LEU	938	-8.115	-37.002	5.115	1.00	21.13
ATCM	6293	N	ASN	939	-11.115	-39.000	5.115	1.00	19.30
ATCM	6294	CA	ASN	939	-10.117	-39.116	5.115	1.00	20.12
ATCM	6295	CB	ASN	939	-10.117	-39.119	5.115	1.00	21.00
ATCM	6296	CG	ASN	939	-10.119	-39.117	5.115	1.00	24.01
ATCM	6297	CD1	ASN	939	-9.115	-39.113	5.115	1.00	24.14
ATCM	6298	CD2	ASN	939	-10.114	-39.632	5.115	1.00	24.33
ATCM	6299	C	ASN	939	-10.119	-39.117	5.115	1.00	17.31
ATCM	6300	C	ASN	939	-10.113	-39.114	5.115	1.00	17.34
ATCM	6301	N	VAL	940	-11.114	-39.115	5.115	1.00	15.30
ATCM	6302	CA	VAL	940	-11.112	-39.004	5.115	1.00	12.39
ATCM	6303	CB	VAL	940	-10.116	-39.119	5.115	1.00	13.67
ATCM	6304	CG1	VAL	940	-10.116	-39.115	5.115	1.00	14.67
ATCM	6305	CG2	VAL	940	-10.116	-39.113	5.115	1.00	15.61
ATCM	6306	C	VAL	940	-11.119	-39.111	5.115	1.00	12.34
ATCM	6307	C	VAL	940	-11.114	-39.117	5.115	1.00	11.36
ATCM	6308	N	MET	941	-10.115	-39.112	5.115	1.00	11.64
ATCM	6309	CA	MET	941	-9.117	-39.114	5.115	1.00	11.33
ATCM	6310	CB	MET	941	-8.113	-39.000	5.115	1.00	11.01
ATCM	6311	CG	MET	941	-8.115	-39.000	5.115	1.00	15.14
ATCM	6312	CD	MET	941	-6.115	-39.112	5.115	1.00	13.23
ATCM	6313	CE	MET	941	-6.118	-39.008	5.115	1.00	16.00
ATCM	6314	C	MET	941	-6.115	-39.118	5.115	1.00	11.82
ATCM	6315	O	MET	941	-9.119	-39.116	5.115	1.00	12.66
ATCM	6316	N	LEU	942	-10.110	-39.110	5.115	1.00	10.99
ATCM	6317	CA	LEU	942	-10.114	-39.113	5.115	1.00	12.19
ATCM	6318	CB	LEU	942	-11.119	-39.113	5.115	1.00	15.75
ATCM	6319	CG	LEU	942	-11.110	-39.110	5.115	1.00	20.87
ATCM	6320	CD1	LEU	942	-11.113	-39.110	5.115	1.00	25.00
ATCM	6321	CD2	LEU	942	-11.115	-39.111	5.115	1.00	18.03
ATCM	6322	C	LEU	942	-9.113	-39.112	5.115	1.00	12.22
ATCM	6323	O	LEU	942	-9.119	-39.114	5.115	1.00	11.14
ATCM	6324	N	VAL	943	-11.110	-39.112	5.115	1.00	11.13
ATCM	6325	CA	VAL	943	-11.116	-39.113	5.115	1.00	10.12
ATCM	6326	CB	VAL	943	-11.119	-39.111	5.115	1.00	10.69
ATCM	6327	CG1	VAL	943	-11.112	-39.112	5.115	1.00	11.40
ATCM	6328	CG2	VAL	943	-11.111	-39.112	5.115	1.00	11.59
ATCM	6329	C	VAL	943	-11.111	-39.115	5.115	1.00	11.08
ATCM	6330	O	VAL	943	-11.111	-39.114	5.115	1.00	11.38
ATCM	6331	N	GLY	944	-11.111	-39.115	5.115	1.00	15.11
ATCM	6332	CA	GLY	944	-11.114	-39.115	5.115	1.00	12.63
ATCM	6333	C	GLY	944	-11.110	-39.114	5.115	1.00	11.45
ATCM	6334	O	GLY	944	-11.118	-39.114	5.115	1.00	11.17
ATCM	6335	N	ASP	945	-11.118	-39.111	5.115	1.00	10.87
ATCM	6336	CA	ASP	945	-11.114	-39.114	5.115	1.00	11.11
ATCM	6337	CB	ASP	945	-11.117	-39.112	5.115	1.00	12.84
ATCM	6338	CG	ASP	945	-10.116	-39.113	5.115	1.00	13.41
ATCM	6339	OD1	ASP	945	-10.111	-39.110	5.115	1.00	14.37
ATCM	6340	OD2	ASP	945	-10.112	-39.114	5.115	1.00	14.56
ATCM	6341	C	ASP	945	-11.111	-39.111	5.115	1.00	11.81
ATCM	6342	O	ASP	945	-11.112	-39.117	5.115	1.00	11.48

ATOM	6343	N	SER	946	-8.829	-22.019	24.292	1.00	10.80
ATOM	6344	CA	SER	946	-8.929	-23.346	25.000	1.00	11.13
ATOM	6345	CB	SER	946	-9.751	-24.182	24.109	1.00	13.04
ATOM	6346	CG	SER	946	-9.361	-24.167	22.257	1.00	13.61
ATOM	6347	C	SER	946	-7.483	-23.841	25.109	1.00	12.33
ATOM	6348	C	SER	946	-7.162	-24.146	25.176	1.00	12.77
ATOM	6349	N	LEU	947	-6.608	-23.341	24.111	1.00	9.11
ATOM	6350	CA	LEU	947	-5.139	-23.120	24.111	1.00	10.13
ATOM	6351	CB	LEU	947	-4.386	-22.834	23.266	1.00	9.43
ATOM	6352	CG	LEU	947	-4.241	-21.133	24.266	1.00	10.63
ATOM	6353	CD1	LEU	947	-3.110	-20.949	24.101	1.00	10.13
ATOM	6354	CD2	LEU	947	-3.955	-20.113	24.100	1.00	11.13
ATOM	6355	C	LEU	947	-4.607	-22.194	24.111	1.00	9.23
ATOM	6356	O	LEU	947	-3.627	-24.638	26.114	1.00	10.42
ATOM	6357	N	GLY	948	-5.214	-22.474	26.468	1.00	9.77
ATOM	6358	CA	GLY	948	-4.243	-22.103	26.114	1.00	9.61
ATOM	6359	C	GLY	948	-4.768	-22.482	26.151	1.00	10.16
ATOM	6360	O	GLY	948	-3.966	-23.447	26.579	1.00	10.19
ATOM	6361	N	MET	949	-5.684	-24.483	24.235	1.00	10.44
ATOM	6362	CA	MET	949	-5.295	-23.137	24.235	1.00	12.10
ATOM	6363	CB	MET	949	-7.271	-23.152	24.111	1.00	12.30
ATOM	6364	CG	MET	949	-7.987	-23.849	24.111	1.00	11.42
ATOM	6365	CD	MET	949	-9.720	-23.184	24.481	1.00	21.14
ATOM	6366	CE	MET	949	-9.555	-26.115	21.169	1.00	21.19
ATOM	6367	O	MET	949	-5.153	-26.114	24.111	1.00	11.19
ATOM	6368	C	MET	949	-4.272	-23.173	24.111	1.00	11.01
ATOM	6369	N	THR	950	-5.677	-23.103	24.111	1.00	11.13
ATOM	6370	CA	THR	950	-5.061	-23.104	24.111	1.00	11.34
ATOM	6371	CB	THR	950	-5.335	-18.111	21.175	1.00	11.17
ATOM	6372	CG1	THR	950	-5.665	-29.146	21.117	1.00	21.10
ATOM	6373	CG2	THR	950	-5.492	-27.117	23.111	1.00	11.15
ATOM	6374	C	THR	950	-3.570	-28.117	23.111	1.00	11.12
ATOM	6375	O	THR	950	-2.187	-27.113	23.111	1.00	11.14
ATOM	6376	N	VAL	951	-3.164	-26.119	23.111	1.00	11.11
ATOM	6377	CA	VAL	951	-1.663	-26.119	23.111	1.00	11.11
ATOM	6378	CB	VAL	951	-1.622	-26.119	24.111	1.00	11.11
ATOM	6379	CG1	VAL	951	-0.314	-26.119	24.111	1.00	11.11
ATOM	6380	CG2	VAL	951	-0.217	-26.119	24.111	1.00	11.11
ATOM	6381	C	VAL	951	-0.769	-26.113	26.111	1.00	11.11
ATOM	6382	O	VAL	951	0.242	-26.113	26.111	1.00	11.11
ATOM	6383	N	GLN	952	-1.146	-26.113	27.111	1.00	11.11
ATOM	6384	CA	GLN	952	-0.354	-26.113	27.111	1.00	11.11
ATOM	6385	CB	GLN	952	-0.668	-11.149	23.111	1.00	11.11
ATOM	6386	CG	GLN	952	-0.456	-11.115	27.111	1.00	11.11
ATOM	6387	CD	GLN	952	-0.885	-11.112	27.111	1.00	11.11
ATOM	6388	CE1	GLN	952	-1.405	-11.117	27.111	1.00	11.11
ATOM	6389	NE2	GLN	952	-0.571	-11.115	26.111	1.00	11.11
ATOM	6390	C	GLN	952	-0.534	-11.115	29.111	1.00	11.11
ATOM	6391	O	GLN	952	0.227	-11.119	30.111	1.00	11.11
ATOM	6392	N	GLY	953	-1.667	-11.111	29.111	1.00	11.11
ATOM	6393	CA	GLY	953	-1.885	-11.111	21.111	1.00	11.11
ATOM	6394	C	GLY	953	-3.460	-11.113	32.111	1.00	11.11
ATOM	6395	O	GLY	953	-2.246	-11.111	33.111	1.00	11.11
ATOM	6396	N	HIS	954	-3.118	-11.111	31.111	1.00	11.11
ATOM	6397	CA	HIS	954	-3.727	-11.116	33.111	1.00	11.11
ATOM	6398	CB	HIS	954	-3.849	-11.111	32.111	1.00	11.11
ATOM	6399	CG	HIS	954	-2.149	-11.111	32.111	1.00	11.11
ATOM	6400	CD	HIS	954	-1.113	-11.110	31.111	1.00	11.11
ATOM	6401	ND1	HIS	954	-1.111	-11.112	33.111	1.00	11.11
ATOM	6402	CE1	HIS	954	-0.440	-11.110	33.111	1.00	11.11
ATOM	6403	NE2	HIS	954	-0.111	-11.111	31.111	1.00	11.11
ATOM	6404	C	HIS	954	-0.113	-11.114	33.111	1.00	11.11
ATOM	6405	O	HIS	954	-0.111	-11.114	32.111	1.00	11.11
ATOM	6406	N	ASP	955	-3.444	-11.115	34.111	1.00	11.11
ATOM	6407	CA	ASP	955	-3.111	-11.114	34.111	1.00	11.11
ATOM	6408	CB	ASP	955	-3.111	-11.114	34.111	1.00	11.11
ATOM	6409	CG	ASP	955	-3.111	-11.114	34.111	1.00	11.11
ATOM	6410	OD1	ASP	955	-3.111	-11.114	34.111	1.00	11.11
ATOM	6411	OD2	ASP	955	-3.111	-11.114	34.111	1.00	11.11
ATOM	6412	C	ASP	955	-3.111	-11.114	34.111	1.00	11.11
ATOM	6413	O	ASP	955	-3.111	-11.114	34.111	1.00	11.11
ATOM	6414	N	SER	956	-3.111	-11.114	34.111	1.00	11.11
ATOM	6415	CA	SER	956	-3.111	-11.114	34.111	1.00	11.11
ATOM	6416	CB	SER	956	-3.111	-11.114	34.111	1.00	11.11
ATOM	6417	CG	SER	956	-3.111	-11.114	34.111	1.00	11.11
ATOM	6418	C	SER	956	-3.111	-11.114	34.111	1.00	11.11
ATOM	6419	O	SER	956	-3.111	-11.114	34.111	1.00	11.11

ATOM	6420	N	THR	957	-8.997	-20.955	20.953	1.00	12.70
ATOM	6421	CA	THR	957	-8.495	-20.159	19.734	1.00	11.13
ATOM	6422	CB	THR	957	-9.579	-20.165	18.650	1.00	10.23
ATOM	6423	CG1	THR	957	-10.710	-19.468	19.117	1.00	12.66
ATOM	6424	CG2	THR	957	-10.017	-21.156	18.131	1.00	13.39
ATOM	6425	CH2	THR	957	-8.147	-18.864	20.114	1.00	10.00
ATOM	6426	C	THR	957	-7.415	-18.164	19.135	1.00	9.13
ATOM	6427	N	LEU	958	-7.773	-18.771	21.313	1.00	11.19
ATOM	6428	CA	LEU	958	-8.042	-17.409	21.719	1.00	10.18
ATOM	6429	CB	LEU	958	-8.483	-16.956	22.167	1.00	11.35
ATOM	6430	CG	LEU	958	-9.062	-16.409	23.380	1.00	14.18
ATOM	6431	CD1	LEU	958	-10.454	-17.887	22.865	1.00	13.18
ATOM	6432	CD2	LEU	958	-10.159	-15.261	24.824	1.00	16.73
ATOM	6433	C	LEU	958	-9.589	-16.545	21.515	1.00	10.13
ATOM	6434	N	LEU	958	-8.306	-15.413	21.186	1.00	10.34
ATOM	6435	N	PEP	959	-5.611	-17.417	21.814	1.00	11.13
ATOM	6436	CD	PEP	959	-5.094	-18.091	22.549	1.00	11.19
ATOM	6437	CA	PEP	959	-4.711	-17.015	21.645	1.00	10.16
ATOM	6438	CB	PEP	959	-4.417	-18.179	22.784	1.00	11.32
ATOM	6439	CG	PEP	959	-4.389	-19.328	22.177	1.00	12.11
ATOM	6440	C	PEP	959	-4.112	-18.111	22.227	1.00	10.11
ATOM	6441	N	PEP	959	-4.014	-18.856	23.043	1.00	11.15
ATOM	6442	N	VAL	960	-4.470	-17.139	19.134	1.00	10.44
ATOM	6443	CA	VAL	960	-4.171	-18.824	17.827	1.00	9.12
ATOM	6444	CB	VAL	960	-5.116	-17.017	16.158	1.00	10.11
ATOM	6445	CG1	VAL	960	-4.078	-17.492	15.406	1.00	9.19
ATOM	6446	CG2	VAL	960	-5.114	-19.116	17.513	1.00	11.11
ATOM	6447	C	VAL	960	-4.017	-18.455	17.415	1.00	11.03
ATOM	6448	N	VAL	960	-4.031	-14.123	17.619	1.00	9.16
ATOM	6449	N	THR	961	-5.182	-18.013	15.911	1.00	11.19
ATOM	6450	CA	THR	961	-4.130	-18.010	16.153	1.00	11.19
ATOM	6451	CB	THR	961	-5.111	-17.875	15.143	1.00	10.19
ATOM	6452	CG1	THR	961	-4.031	-18.793	15.110	1.00	21.13
ATOM	6453	CG2	THR	961	-5.157	-18.461	15.035	1.00	21.13
ATOM	6454	C	THR	961	-2.114	-18.423	15.940	1.00	11.16
ATOM	6455	N	THR	961	-2.131	-14.135	14.272	1.00	9.13
ATOM	6456	N	VAL	961	-2.138	-13.171	13.613	1.00	8.12
ATOM	6457	CA	VAL	961	-2.114	-11.130	12.133	1.00	7.14
ATOM	6458	CB	VAL	961	-3.127	-10.133	11.254	1.00	11.17
ATOM	6459	CG1	VAL	961	-3.134	-13.244	11.447	1.00	9.12
ATOM	6460	CG2	VAL	961	-4.464	-10.841	11.640	1.00	10.11
ATOM	6461	C	VAL	961	-1.812	-13.540	11.386	1.00	10.14
ATOM	6462	N	VAL	961	-1.031	-13.073	11.434	1.00	10.19
ATOM	6463	CA	ALA	962	-0.656	-12.142	11.088	1.00	9.18
ATOM	6464	CB	ALA	962	0.812	-12.134	11.439	1.00	10.18
ATOM	6465	CG	ALA	962	1.732	-12.134	11.337	1.00	10.49
ATOM	6466	C	ALA	962	2.864	-14.130	11.338	1.00	10.49
ATOM	6467	N	ALA	962	1.038	-14.143	11.276	1.00	10.00
ATOM	6468	N	ASP	963	-0.031	-14.886	11.135	1.00	11.44
ATOM	6469	CA	ASP	963	-0.144	-15.316	12.007	1.00	11.54
ATOM	6470	CB	ASP	963	-0.818	-16.461	13.749	1.00	11.14
ATOM	6471	CG	ASP	963	-0.066	-16.816	15.571	1.00	13.23
ATOM	6472	CD1	ASP	963	1.239	-16.781	15.525	1.00	11.81
ATOM	6473	CD2	ASP	963	-0.617	-16.761	16.648	1.00	12.45
ATOM	6474	C	ASP	963	-0.966	-16.682	11.835	1.00	11.21
ATOM	6475	N	ASP	963	-0.532	-17.561	11.048	1.00	8.19
ATOM	6476	N	ILE	964	-2.113	-16.637	11.689	1.00	8.16
ATOM	6477	CA	ILE	964	-2.938	-16.142	11.155	1.00	9.06
ATOM	6478	CB	ILE	964	-4.239	-15.435	10.595	1.00	9.54
ATOM	6479	CG	ILE	964	-3.037	-15.617	11.290	1.00	10.59
ATOM	6480	CD1	ILE	964	-5.125	-15.814	11.313	1.00	8.09
ATOM	6481	CD2	ILE	964	-5.839	-17.115	11.738	1.00	9.16
ATOM	6482	C	ILE	964	-2.237	-15.930	11.244	1.00	8.11
ATOM	6483	N	ILE	965	-2.333	-16.735	11.267	1.00	8.11
ATOM	6484	N	ASP	965	-1.518	-14.131	11.232	1.00	9.16
ATOM	6485	CA	ALA	966	-0.711	-14.143	11.026	1.00	7.18
ATOM	6486	CB	ALA	966	-0.131	-13.046	11.445	1.00	10.51
ATOM	6487	C	ALA	966	0.311	-15.439	11.665	1.00	6.25
ATOM	6488	N	ALA	966	0.633	-15.634	11.444	1.00	8.05
ATOM	6489	N	TYR	967	0.934	-16.033	11.830	1.00	7.23
ATOM	6490	CA	TYR	967	2.037	-15.032	11.487	1.00	7.41
ATOM	6491	CB	TYR	967	2.632	-17.433	19.847	1.00	8.25
ATOM	6492	CG	TYR	967	3.631	-18.573	19.775	1.00	9.15
ATOM	6493	CD1	TYR	967	4.858	-18.406	19.181	1.00	10.05
ATOM	6494	CD2	TYR	967	5.787	-19.444	19.151	1.00	12.77
ATOM	6495	C	TYR	967	3.736	-19.808	20.114	1.00	9.43
ATOM	6496	N	TYR	967	4.113	-19.808	11.278	1.00	13.19

ATM	6497	CZ	TYR	967	5.462	-20.673	19.695	1.00	13.29
ATM	6498	OH	TYR	967	6.794	-21.697	19.655	1.00	13.95
ATM	6499	C	TYR	967	1.454	-18.166	17.772	1.00	6.51
ATM	6500	S	TYR	967	2.713	-18.145	16.776	1.00	5.94
ATM	6501	N	HIS	968	0.347	-18.783	18.136	1.00	9.58
ATM	6502	CA	HIS	968	-0.276	-19.624	17.741	1.00	9.67
ATM	6503	CB	HIS	968	-0.178	-19.593	18.384	1.00	8.45
ATM	6504	CG	HIS	968	-0.523	-19.162	19.088	1.00	9.13
ATM	6505	CD2	HIS	968	-0.587	-18.730	21.211	1.00	8.68
ATM	6506	ND1	HIS	968	-0.147	-18.360	19.554	1.00	8.18
ATM	6507	CE1	HIS	968	-0.214	-17.582	21.113	1.00	9.12
ATM	6508	NE2	HIS	968	-0.434	-17.175	21.623	1.00	7.46
ATM	6509	C	HIS	968	-0.329	-16.714	20.463	1.00	10.86
ATM	6510	O	HIS	968	-1.082	-16.560	19.535	1.00	9.41
ATM	6511	C	THR	969	-1.468	-16.466	18.577	1.00	10.69
ATM	6512	CA	THR	969	-0.135	-16.689	18.901	1.00	8.73
ATM	6513	CB	THR	969	-0.713	-16.169	18.148	1.00	11.74
ATM	6514	CG1	THR	969	-0.678	-16.774	18.695	1.00	12.60
ATM	6515	CG2	THR	969	-0.136	-16.180	18.781	1.00	10.52
ATM	6516	C	THR	969	-1.160	-16.118	18.032	1.00	10.58
ATM	6517	C	THR	969	-1.366	-16.180	17.719	1.00	10.24
ATM	6518	C	ALA	970	-0.004	-16.173	18.186	1.00	8.17
ATM	6519	CA	ALA	970	-0.000	-16.114	18.101	1.00	9.03
ATM	6520	CB	ALA	970	-0.000	-16.117	18.467	1.00	7.66
ATM	6521	C	ALA	970	-0.471	-16.146	18.100	1.00	10.42
ATM	6522	C	ALA	970	-0.000	-16.111	18.448	1.00	10.11
ATM	6523	C	ALA	971	-0.100	-16.100	18.683	1.00	10.79
ATM	6524	CA	ALA	971	-0.800	-16.146	18.100	1.00	8.64
ATM	6525	CB	ALA	971	-0.471	-16.146	18.100	1.00	10.14
ATM	6526	C	ALA	971	-0.800	-16.146	18.100	1.00	10.14
ATM	6527	C	ALA	971	-0.111	-16.106	18.100	1.00	10.59
ATM	6528	C	VAL	972	-0.443	-16.106	18.100	1.00	9.67
ATM	6529	CA	VAL	972	-0.471	-16.106	18.100	1.00	8.66
ATM	6530	CB	VAL	972	-0.471	-16.106	18.100	1.00	8.10
ATM	6531	CG1	VAL	972	-0.471	-16.106	18.100	1.00	10.13
ATM	6532	CG2	VAL	972	-0.471	-16.106	18.100	1.00	10.13
ATM	6533	C	VAL	972	-0.471	-16.106	18.100	1.00	10.13
ATM	6534	C	VAL	972	-0.471	-16.106	18.100	1.00	10.13
ATM	6535	C	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6536	CA	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6537	CB	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6538	CG	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6539	CD	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6540	DE	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6541	CE	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6542	CH1	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6543	CH2	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6544	C	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6545	C	ARG	973	-0.471	-16.106	18.100	1.00	10.13
ATM	6546	C	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6547	CA	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6548	CB	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6549	CG	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6550	CH	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6551	CD	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6552	DE	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6553	CE	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6554	CH1	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6555	CH2	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6556	C	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6557	C	ARG	974	-0.471	-16.106	18.100	1.00	10.13
ATM	6558	C	GLY	975	-0.471	-16.106	18.100	1.00	10.13
ATM	6559	CA	GLY	975	-0.471	-16.106	18.100	1.00	10.13
ATM	6560	CB	GLY	975	-0.471	-16.106	18.100	1.00	10.13
ATM	6561	C	GLY	975	-0.471	-16.106	18.100	1.00	10.13
ATM	6562	C	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6563	CA	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6564	CB	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6565	C	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6566	C	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6567	CD	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6568	CA	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6569	CB	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6570	CG	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6571	C	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6572	C	ALA	976	-0.471	-16.106	18.100	1.00	10.13
ATM	6573	C	ASN	977	-0.471	-16.106	18.100	1.00	10.13

ATCM	6574	CA	ASN	978	-5.616	-70.924	2.631	1.00	16.97
ATCM	6575	CB	ASN	978	-5.770	-71.725	1.430	1.00	21.84
ATCM	6576	CG	ASN	978	-4.692	-21.397	0.415	1.00	24.37
ATCM	6577	CD1	ASN	978	-4.473	-70.232	-0.020	1.00	26.80
ATCM	6578	CD2	ASN	978	-4.013	-22.422	-0.185	1.00	28.38
ATCM	6579	C	ASN	978	-6.856	-21.137	3.497	1.00	15.81
ATCM	6580	C	ASN	978	-7.474	-20.944	1.946	1.00	16.34
ATCM	6581	N	CYS	979	-6.771	-21.541	4.745	1.00	15.45
ATCM	6582	CA	CYS	979	-7.413	-21.777	5.697	1.00	15.35
ATCM	6583	CB	CYS	979	-7.417	-22.674	6.403	1.00	15.73
ATCM	6584	CG	CYS	979	-6.617	-21.777	8.192	1.00	17.53
ATCM	6585	C	CYS	979	-8.169	-20.444	6.096	1.00	13.52
ATCM	6586	C	CYS	979	-7.469	-19.415	6.035	1.00	15.76
ATCM	6587	N	LEU	980	-9.709	-20.697	6.559	1.00	13.60
ATCM	6588	CA	LEU	980	-10.496	-19.457	7.148	1.00	11.99
ATCM	6589	CB	LEU	980	-11.014	-19.581	7.017	1.00	13.15
ATCM	6590	CG	LEU	980	-12.747	-18.561	7.735	1.00	13.39
ATCM	6591	CD1	LEU	980	-12.749	-17.144	7.313	1.00	17.24
ATCM	6592	CD2	LEU	980	-14.239	-18.371	7.628	1.00	13.60
ATCM	6593	C	LEU	980	-9.440	-19.621	8.634	1.00	11.60
ATCM	6594	C	LEU	980	-10.336	-20.601	9.162	1.00	11.81
ATCM	6595	N	LEU	980	-9.177	-18.677	9.029	1.00	12.13
ATCM	6596	CA	LEU	980	-8.647	-18.760	10.447	1.00	9.58
ATCM	6597	CB	LEU	980	-7.112	-13.435	10.337	1.00	10.99
ATCM	6598	CG	LEU	980	-6.145	-13.657	11.539	1.00	12.12
ATCM	6599	CD1	LEU	980	-4.741	-13.709	11.090	1.00	12.07
ATCM	6600	CD2	LEU	980	-6.442	-17.971	12.747	1.00	15.27
ATCM	6601	C	LEU	980	-9.341	-17.832	11.458	1.00	16.37
ATCM	6602	C	LEU	980	-9.177	-16.631	11.321	1.00	11.16
ATCM	6603	N	LEU	980	-9.344	-18.334	12.455	1.00	9.54
ATCM	6604	CA	LEU	980	-10.614	-17.564	13.485	1.00	10.87
ATCM	6605	CB	LEU	980	-11.948	-18.140	13.951	1.00	12.12
ATCM	6606	CG	LEU	980	-12.142	-17.864	13.385	1.00	14.63
ATCM	6607	CD1	LEU	980	-12.947	-16.489	11.715	1.00	13.83
ATCM	6608	CD2	LEU	980	-14.414	-18.441	13.782	1.00	14.33
ATCM	6609	C	LEU	980	-9.649	-17.932	14.675	1.00	12.13
ATCM	6610	C	LEU	980	-8.941	-18.521	14.951	1.00	12.63
ATCM	6611	N	ALA	983	-9.549	-16.420	15.364	1.00	11.23
ATCM	6612	CA	ALA	983	-8.745	-16.124	16.513	1.00	11.23
ATCM	6613	CB	ALA	983	-7.440	-15.842	16.217	1.00	9.62
ATCM	6614	C	ALA	983	-9.445	-15.675	17.682	1.00	9.93
ATCM	6615	C	ALA	983	-10.643	-14.601	17.597	1.00	11.64
ATCM	6616	N	ASP	984	-9.442	-16.347	18.809	1.00	10.15
ATCM	6617	CA	ASP	984	-10.116	-15.823	23.076	1.00	11.00
ATCM	6618	CB	ASP	984	-10.118	-16.871	21.148	1.00	14.03
ATCM	6619	CG	ASP	984	-11.312	-17.763	21.119	1.00	16.37
ATCM	6620	CD1	ASP	984	-12.315	-17.473	20.446	1.00	14.30
ATCM	6621	CD2	ASP	984	-11.314	-18.715	21.923	1.00	14.64
ATCM	6622	C	ASP	984	-9.380	-14.727	20.562	1.00	10.62
ATCM	6623	C	ASP	984	-8.161	-14.939	20.524	1.00	10.17
ATCM	6624	N	LEU	985	-10.151	-13.783	21.137	1.00	10.79
ATCM	6625	CA	LEU	985	-8.529	-12.487	21.864	1.00	11.87
ATCM	6626	CB	LEU	985	-10.323	-11.795	21.763	1.00	12.83
ATCM	6627	CG	LEU	985	-10.091	-10.110	20.479	1.00	14.09
ATCM	6628	CD1	LEU	985	-10.547	-9.965	20.645	1.00	16.64
ATCM	6629	CD2	LEU	985	-8.613	-10.142	25.102	1.00	17.01
ATCM	6630	C	LEU	985	-8.715	-13.164	23.277	1.00	11.19
ATCM	6631	C	LEU	985	-10.840	-11.750	23.609	1.00	12.15
ATCM	6632	N	PRO	986	-8.651	-13.815	24.034	1.00	10.32
ATCM	6633	CA	PRO	986	-7.180	-12.491	23.645	1.00	10.52
ATCM	6634	CB	PRO	986	-8.498	-13.906	23.072	1.00	11.35
ATCM	6635	CG	PRO	986	-7.138	-14.111	23.034	1.00	12.21
ATCM	6636	CD	PRO	986	-6.763	-13.813	23.015	1.00	12.79
ATCM	6637	C	PRO	986	-9.009	-13.046	23.482	1.00	16.95
ATCM	6638	C	PRO	986	-9.321	-11.944	23.155	1.00	16.33
ATCM	6639	N	PHE	987	-9.164	-11.664	23.684	1.00	9.49
ATCM	6640	CA	PHE	987	-9.113	-11.256	23.456	1.00	10.31
ATCM	6641	CB	PHE	987	-9.241	-11.722	23.118	1.00	10.30
ATCM	6642	CG	PHE	987	-9.770	-12.934	23.418	1.00	11.95
ATCM	6643	CD1	PHE	987	-11.554	-12.630	23.823	1.00	11.08
ATCM	6644	CD2	PHE	987	-8.095	-12.697	23.165	1.00	11.62
ATCM	6645	CHI	PHE	987	-11.172	-11.999	23.654	1.00	10.41
ATCM	6646	CHI	PHE	987	-8.416	-12.070	23.493	1.00	10.09
ATCM	6647	CHI	PHE	987	-10.196	-11.724	23.885	1.00	13.88
ATCM	6648	C	PHE	987	-9.421	-11.491	23.955	1.00	11.22
ATCM	6649	C	PHE	987	-8.124	-11.330	23.661	1.00	10.64
ATCM	6650	N	THR	988	-10.171	-10.549	23.119	1.00	10.88

ATCM	6651	CA	MET	988	-10.118	-9.153	29.774	1.00	12.00
ATCM	6652	CF	MET	988	-9.447	-8.854	30.630	1.00	11.75
ATCM	6653	CG	MET	988	-9.721	-7.436	31.166	1.00	13.31
ATCM	6654	SD	MET	988	-11.475	-7.116	31.506	1.00	13.55
ATCM	6655	CH	MET	988	-11.578	-7.585	33.163	1.00	18.85
ATCM	6656	C	MET	988	-9.360	-8.312	28.119	1.00	13.38
ATCM	6657	D	MET	988	-8.568	-7.356	28.411	1.00	16.20
ATCM	6658	N	ALA	989	-9.420	-9.013	26.947	1.00	11.97
ATCM	6659	CA	ALA	989	-8.681	-8.450	25.816	1.00	12.87
ATCM	6660	CB	ALA	989	-8.072	-9.363	24.663	1.00	11.19
ATCM	6661	C	ALA	989	-9.183	-7.154	24.663	1.00	12.13
ATCM	6662	O	ALA	989	-9.158	-7.913	23.838	1.00	14.14
ATCM	6663	N	TYR	990	-10.853	-7.391	25.349	1.00	11.11
ATCM	6664	CA	TYR	990	-11.786	-6.533	24.644	1.00	11.34
ATCM	6665	CB	TYR	990	-12.591	-7.352	23.660	1.00	11.56
ATCM	6666	CG	TYR	990	-13.160	-8.663	24.140	1.00	14.52
ATCM	6667	CD1	TYR	990	-14.464	-8.776	24.563	1.00	11.96
ATCM	6668	CE1	TYR	990	-14.979	-9.979	25.082	1.00	14.62
ATCM	6669	CD2	TYR	990	-12.702	-9.862	24.367	1.00	12.94
ATCM	6670	CE2	TYR	990	-12.823	-11.017	24.739	1.00	11.62
ATCM	6671	C1	TYR	990	-14.154	-11.091	25.363	1.00	15.44
ATCM	6672	OH	TYR	990	-14.473	-12.275	25.661	1.00	13.21
ATCM	6673	C	TYR	990	-12.666	-5.861	25.711	1.00	12.43
ATCM	6674	O	TYR	990	-12.906	-5.859	25.441	1.00	14.32
ATCM	6675	N	ALA	991	-12.116	-5.430	26.817	1.00	12.73
ATCM	6676	CA	ALA	991	-12.544	-4.710	27.313	1.00	12.56
ATCM	6677	CB	ALA	991	-11.827	-4.561	29.114	1.00	11.46
ATCM	6678	C	ALA	991	-13.434	-3.484	27.478	1.00	12.17
ATCM	6679	O	ALA	991	-14.413	-2.963	28.144	1.00	12.38
ATCM	6680	N	THR	992	-12.173	-2.813	26.855	1.00	13.27
ATCM	6681	CA	THR	992	-12.313	-1.357	25.267	1.00	13.40
ATCM	6682	CB	THR	992	-10.193	-0.783	26.392	1.00	15.15
ATCM	6683	CD1	THR	992	-11.669	-0.417	25.938	1.00	15.35
ATCM	6684	CD2	THR	992	-11.136	-0.716	27.213	1.00	15.49
ATCM	6685	C	THR	992	-13.697	-1.640	24.414	1.00	15.41
ATCM	6686	D	THR	992	-12.311	-2.463	23.965	1.00	11.38
ATCM	6687	N	PRO	992	-13.441	-0.819	23.686	1.00	14.16
ATCM	6688	CD	PRO	993	-15.021	-0.003	24.062	1.00	14.65
ATCM	6689	CA	PRO	993	-13.121	-0.912	22.213	1.00	15.27
ATCM	6690	CB	PRO	993	-14.665	0.289	21.716	1.00	13.69
ATCM	6691	CG	PRO	993	-15.481	0.163	22.701	1.00	14.48
ATCM	6692	C	PRO	993	-12.279	-0.675	21.704	1.00	15.17
ATCM	6693	D	PRO	993	-11.145	-1.413	20.955	1.00	14.48
ATCM	6694	N	GLU	994	-11.656	0.343	22.343	1.00	14.90
ATCM	6695	CA	GLU	994	-10.281	0.714	22.668	1.00	16.61
ATCM	6696	CB	GLU	994	-9.847	1.841	22.961	1.00	20.94
ATCM	6697	CG	GLU	994	-3.873	2.662	23.615	1.00	29.36
ATCM	6698	CD	GLU	994	-8.315	3.837	23.117	1.00	32.49
ATCM	6699	CE1	GLU	994	-7.483	3.719	24.109	1.00	35.55
ATCM	6700	CE2	GLU	994	-8.223	4.234	23.038	1.00	33.67
ATCM	6701	C	GLU	994	-9.313	-0.447	22.166	1.00	15.95
ATCM	6702	O	GLU	994	-8.429	-0.675	21.111	1.00	14.79
ATCM	6703	N	GLN	995	-9.455	-1.170	23.661	1.00	14.73
ATCM	6704	CA	GLN	995	-6.586	-2.307	22.625	1.00	14.57
ATCM	6705	CB	GLN	995	-8.754	-2.743	23.668	1.00	15.35
ATCM	6706	CG	GLN	995	-8.115	-1.765	22.634	1.00	22.47
ATCM	6707	CD	GLN	995	-8.163	-2.215	21.430	1.00	26.05
ATCM	6708	CE1	GLN	995	-7.463	-3.057	21.636	1.00	27.46
ATCM	6709	CE2	GLN	995	-9.414	-1.980	22.125	1.00	29.12
ATCM	6710	C	GLN	995	-8.692	-3.433	22.664	1.00	11.23
ATCM	6711	O	GLN	995	-7.992	-4.142	21.722	1.00	12.90
ATCM	6712	N	ALA	996	-10.170	-3.612	21.661	1.00	11.62
ATCM	6713	CA	ALA	996	-10.578	-4.647	21.322	1.00	10.29
ATCM	6714	CB	ALA	996	-11.103	-4.647	21.366	1.00	12.23
ATCM	6715	C	ALA	996	-9.917	-4.594	20.669	1.00	11.82
ATCM	6716	O	ALA	996	-9.402	-5.321	19.331	1.00	11.66
ATCM	6717	N	PHE	997	-9.932	-3.141	19.631	1.00	11.85
ATCM	6718	CA	PHE	997	-9.325	-2.608	19.237	1.00	13.01
ATCM	6719	CB	PHE	997	-8.423	-1.308	18.615	1.00	12.43
ATCM	6720	CD	PHE	997	-10.813	-1.743	19.165	1.00	13.67
ATCM	6721	CE1	PHE	997	-11.221	-1.528	19.611	1.00	14.72
ATCM	6722	CE2	PHE	997	-11.601	-0.588	19.443	1.00	15.95
ATCM	6723	CE3	PHE	997	-13.209	-0.993	19.865	1.00	16.49
ATCM	6724	CE4	PHE	997	-12.279	1.140	19.499	1.00	13.96
ATCM	6725	CE5	PHE	997	-13.379	0.344	19.711	1.00	17.62
ATCM	6726	C	PHE	997	-7.846	-3.174	18.590	1.00	13.57
ATCM	6727	O	PHE	997	-7.164	-3.264	17.343	1.00	13.14

ATCM	6728	N	GLU	998	-7.128	-2.779	19.341	1.00	13.15
ATCM	6729	CA	GLU	998	-5.701	-3.054	19.430	1.00	15.16
ATCM	6730	CB	GLU	998	-5.122	-2.380	20.674	1.00	17.72
ATCM	6731	CG	GLU	998	-3.669	-2.700	20.997	1.00	24.51
ATCM	6732	CD	GLU	998	-2.909	-1.942	20.001	1.00	28.59
ATCM	6733	CE1	GLU	998	-3.168	-1.301	19.069	1.00	30.41
ATCM	6734	CE2	GLU	998	-1.446	-2.047	20.264	1.00	31.76
ATCM	6735	C	GLU	998	-5.788	-4.064	19.461	1.00	12.56
ATCM	6736	O	GLU	998	-4.723	-5.029	18.731	1.00	10.73
ATCM	6737	N	ASN	999	-6.743	-5.343	20.391	1.00	12.22
ATCM	6738	CA	ASN	999	-5.733	-6.729	20.333	1.00	12.09
ATCM	6739	CB	ASN	999	-6.428	-7.240	21.644	1.00	11.39
ATCM	6740	CG	ASN	999	-5.719	-6.735	22.312	1.00	14.10
ATCM	6741	OD1	ASN	999	-4.603	-6.514	22.369	1.00	13.95
ATCM	6742	OD2	ASN	999	-6.456	-6.520	24.010	1.00	13.68
ATCM	6743	C	ASN	999	-6.734	-7.523	19.182	1.00	12.22
ATCM	6744	O	ASN	999	-5.767	-8.594	18.755	1.00	10.24
ATCM	6745	N	ALA	1000	-7.411	-7.101	18.583	1.00	11.43
ATCM	6746	CA	ALA	1000	-7.711	-7.777	17.769	1.00	12.27
ATCM	6747	CB	ALA	1000	-9.780	-7.201	16.998	1.00	11.29
ATCM	6748	C	ALA	1000	-6.794	-7.371	16.763	1.00	12.84
ATCM	6749	O	ALA	1000	-6.617	-8.138	15.483	1.00	11.51
ATCM	6750	N	ALA	1001	-6.725	-6.871	16.284	1.00	12.62
ATCM	6751	CA	ALA	1001	-5.740	-6.334	15.783	1.00	12.93
ATCM	6752	CB	ALA	1001	-4.741	-4.619	15.285	1.00	11.69
ATCM	6753	C	ALA	1001	-4.107	-6.378	15.810	1.00	11.52
ATCM	6754	O	ALA	1001	-3.745	-7.477	14.884	1.00	11.98
ATCM	6755	N	THR	1002	-3.781	-7.165	16.512	1.00	10.66
ATCM	6756	CA	THR	1002	-2.715	-8.007	16.894	1.00	11.02
ATCM	6757	CB	THR	1002	-2.228	-6.117	18.119	1.00	11.27
ATCM	6758	CG1	THR	1002	-1.780	-6.813	18.841	1.00	12.88
ATCM	6759	CG2	THR	1002	-1.736	-9.040	18.154	1.00	11.56
ATCM	6760	C	THR	1002	-2.739	-9.411	16.746	1.00	10.94
ATCM	6761	O	THR	1002	-1.797	-9.952	15.223	1.00	11.20
ATCM	6762	N	VAL	1003	-3.781	-10.005	16.183	1.00	9.24
ATCM	6763	CA	VAL	1003	-4.194	-11.072	16.112	1.00	9.83
ATCM	6764	CB	VAL	1003	-5.742	-11.091	16.197	1.00	11.74
ATCM	6765	CG1	VAL	1003	-6.780	-11.111	16.775	1.00	10.79
ATCM	6766	CG2	VAL	1003	-3.731	-13.484	16.875	1.00	19.39
ATCM	6767	C	VAL	1003	-4.374	-11.466	14.193	1.00	10.01
ATCM	6768	O	VAL	1003	-3.799	-11.462	13.965	1.00	7.78
ATCM	6769	N	MET	1004	-4.767	-10.123	14.013	1.00	8.67
ATCM	6770	CA	MET	1004	-5.205	-10.768	12.770	1.00	11.82
ATCM	6771	CB	MET	1004	-6.197	-9.174	12.113	1.00	10.14
ATCM	6772	CG	MET	1004	-7.523	-8.740	12.118	1.00	16.34
ATCM	6773	SD	MET	1004	-8.546	-13.464	11.714	1.00	14.40
ATCM	6774	CE	MET	1004	-8.583	-8.772	10.742	1.00	17.67
ATCM	6775	C	MET	1004	-1.878	-11.111	11.825	1.00	10.89
ATCM	6776	O	MET	1004	-1.565	-11.460	10.707	1.00	13.67
ATCM	6777	N	ARG	1005	-2.988	-9.345	12.711	1.00	11.14
ATCM	6778	CA	ARG	1005	-1.709	-9.184	11.719	1.00	11.02
ATCM	6779	CB	ARG	1005	-0.862	-8.066	12.134	1.00	12.00
ATCM	6780	CG	ARG	1005	-1.490	-1.589	12.114	1.00	16.37
ATCM	6781	CD	ARG	1005	-0.472	-5.584	12.756	1.00	15.62
ATCM	6782	NE	ARG	1005	-1.134	-4.292	12.768	1.00	17.19
ATCM	6783	CZ	ARG	1005	-1.491	-3.811	13.744	1.00	16.30
ATCM	6784	NHE	ARG	1005	-1.248	-4.501	14.634	1.00	16.09
ATCM	6785	NHE	ARG	1005	-2.110	-2.646	13.718	1.00	17.74
ATCM	6786	C	ARG	1005	-0.916	-10.491	11.659	1.00	11.70
ATCM	6787	O	ARG	1005	-0.139	-10.787	10.750	1.00	11.26
ATCM	6788	N	ALA	1006	-1.142	-11.266	12.716	1.00	11.42
ATCM	6789	CA	ALA	1006	-1.425	-11.549	12.718	1.00	11.69
ATCM	6790	CB	ALA	1006	-1.660	-11.966	14.703	1.00	12.28
ATCM	6791	C	ALA	1006	-1.955	-13.639	11.763	1.00	14.06
ATCM	6792	O	ALA	1006	-1.533	-14.703	11.764	1.00	13.17
ATCM	6793	N	GLY	1007	-1.068	-13.399	11.720	1.00	11.67
ATCM	6794	CA	GLY	1007	-1.158	-14.364	10.736	1.00	13.36
ATCM	6795	C	GLY	1007	-1.043	-14.761	10.758	1.00	11.83
ATCM	6796	O	GLY	1007	-1.546	-15.406	9.474	1.00	13.69
ATCM	6797	N	ALA	1008	-1.759	-14.183	11.754	1.00	16.76
ATCM	6798	CA	ALA	1008	-1.177	-14.430	11.784	1.00	10.68
ATCM	6799	CB	ALA	1008	-1.641	-14.059	12.694	1.00	11.65
ATCM	6800	C	ALA	1008	-1.010	-13.665	10.453	1.00	13.14
ATCM	6801	O	ALA	1008	-0.591	-12.634	9.951	1.00	14.66
ATCM	6802	N	ASN	1009	-6.193	-14.192	19.151	1.00	12.15
ATCM	6803	CA	ASN	1009	-6.115	-13.517	17.096	1.00	11.79
ATCM	6804	CB	ASN	1009	-6.771	-14.199	17.193	1.00	13.90

ATOM	6-15	CG	ASN	1009	-8.543	-15.225	7.376	1.00	13.44
ATOM	6-16	OD1	ASN	1009	-7.839	-14.559	6.661	1.00	15.49
ATOM	6-17	ND2	ASN	1009	-8.537	-16.550	7.487	1.00	19.54
ATOM	6-18	C	ASN	1009	-10.337	-13.057	9.984	1.00	11.95
ATOM	6-19	O	ASN	1009	-11.119	-12.276	9.429	1.00	11.76
ATOM	6-10	N	MET	1010	-10.493	-13.536	11.177	1.00	11.61
ATOM	6-11	CA	MET	1010	-11.060	-13.165	11.956	1.00	12.67
ATOM	6-12	CB	MET	1010	-12.834	-14.052	11.913	1.00	10.94
ATOM	6-13	CG	MET	1010	-14.101	-13.892	12.207	1.00	15.45
ATOM	6-14	SD	MET	1010	-15.435	-14.953	11.613	1.00	18.49
ATOM	6-15	CE	MET	1010	-16.734	-13.742	10.618	1.00	17.91
ATOM	6-16	C	MET	1010	-11.657	-13.364	13.471	1.00	12.79
ATOM	6-17	O	MET	1010	-10.141	-14.397	13.741	1.00	19.90
ATOM	6-18	N	VAL	1011	-12.005	-12.371	14.376	1.00	11.32
ATOM	6-19	CA	VAL	1011	-11.337	-12.664	16.701	1.00	12.46
ATOM	6-20	CB	VAL	1011	-11.657	-11.890	16.346	1.00	14.64
ATOM	6-21	CG1	VAL	1011	-11.397	-11.831	17.759	1.00	21.31
ATOM	6-22	CG2	VAL	1011	-9.850	-10.651	16.608	1.00	14.58
ATOM	6-23	C	VAL	1011	-13.064	-13.121	16.387	1.00	11.69
ATOM	6-24	O	VAL	1011	-14.105	-12.563	16.838	1.00	11.41
ATOM	6-25	N	LYS	1012	-12.534	-13.940	17.426	1.00	11.21
ATOM	6-26	CA	LYS	1012	-14.038	-14.399	18.187	1.00	11.36
ATOM	6-27	CB	LYS	1012	-14.130	-15.423	13.333	1.00	12.52
ATOM	6-28	CG	LYS	1012	-15.117	-16.422	13.123	1.00	14.11
ATOM	6-29	CD	LYS	1012	-15.735	-17.857	13.789	1.00	18.18
ATOM	6-30	CE	LYS	1012	-14.937	-18.869	19.223	1.00	11.81
ATOM	6-31	NZ	LYS	1012	-14.538	-18.899	20.337	1.00	18.14
ATOM	6-32	C	LYS	1012	-14.390	-13.810	13.330	1.00	11.76
ATOM	6-33	O	LYS	1012	-13.135	-13.831	20.141	1.00	11.42
ATOM	6-34	N	LEU	1013	-16.136	-13.180	20.338	1.00	12.31
ATOM	6-35	CA	LEU	1013	-15.032	-12.892	21.157	1.00	13.77
ATOM	6-36	CB	LEU	1013	-15.135	-11.149	21.278	1.00	11.84
ATOM	6-37	CG2	LEU	1013	-13.809	-10.825	20.833	1.00	13.46
ATOM	6-38	CG1	LEU	1013	-16.319	-10.890	20.117	1.00	14.17
ATOM	6-39	CD1	LEU	1013	-16.835	-9.181	20.193	1.00	16.19
ATOM	6-40	C	LEU	1013	-16.340	-13.311	22.091	1.00	14.89
ATOM	6-41	O	LEU	1013	-17.338	-13.625	21.414	1.00	14.32
ATOM	6-42	N	GLU	1014	-16.173	-13.304	23.333	1.00	14.34
ATOM	6-43	CA	GLU	1014	-17.381	-13.314	24.139	1.00	17.49
ATOM	6-44	CB	GLU	1014	-17.339	-14.890	25.331	1.00	14.74
ATOM	6-45	CG	GLU	1014	-16.618	-15.243	24.884	1.00	18.47
ATOM	6-46	CD	GLU	1014	-19.333	-16.757	26.052	1.00	18.33
ATOM	6-47	OE1	GLU	1014	-16.166	-16.532	25.233	1.00	20.32
ATOM	6-48	OE2	GLU	1014	-14.230	-17.429	25.811	1.00	20.34
ATOM	6-49	C	GLU	1014	-16.441	-12.722	24.813	1.00	17.21
ATOM	6-50	O	GLU	1014	-17.928	-11.775	25.419	1.00	18.79
ATOM	6-51	N	GLY	1015	-19.355	-12.802	24.764	1.00	19.87
ATOM	6-52	CA	GLY	1015	-20.822	-11.364	25.131	1.00	20.15
ATOM	6-53	C	GLY	1015	-21.334	-11.537	24.445	1.00	22.40
ATOM	6-54	O	GLY	1015	-21.869	-11.243	23.334	1.00	22.51
ATOM	6-55	N	GLY	1016	-23.803	-10.678	25.064	1.00	13.73
ATOM	6-56	CA	GLY	1016	-24.319	-10.113	24.345	1.00	24.26
ATOM	6-57	C	GLY	1016	-23.133	-9.948	24.352	1.00	14.54
ATOM	6-58	O	GLY	1016	-23.323	-8.406	23.443	1.00	17.42
ATOM	6-59	N	GLU	1017	-25.329	-8.518	24.486	1.00	14.54
ATOM	6-60	CA	GLU	1017	-25.835	-7.113	24.173	1.00	15.81
ATOM	6-61	CB	GLU	1017	-26.866	-6.733	25.170	1.00	17.19
ATOM	6-62	CG	GLU	1017	-24.135	-6.871	24.383	1.00	17.63
ATOM	6-63	CD	GLU	1017	-23.814	-5.691	23.844	1.00	19.61
ATOM	6-64	OE1	GLU	1017	-23.361	-5.503	21.130	1.00	19.67
ATOM	6-65	OE2	GLU	1017	-23.753	-4.943	24.312	1.00	13.46
ATOM	6-66	C	GLU	1017	-24.333	-6.113	24.349	1.00	21.37
ATOM	6-67	O	GLU	1017	-24.331	-5.323	23.833	1.00	21.26
ATOM	6-68	N	TRP	1018	-23.357	-6.141	25.117	1.00	21.77
ATOM	6-69	CA	TRP	1018	-23.391	-5.295	25.069	1.00	20.32
ATOM	6-70	CB	TRP	1018	-23.173	-5.631	27.139	1.00	23.17
ATOM	6-71	CG	TRP	1018	-21.168	-6.820	27.332	1.00	18.75
ATOM	6-72	CD	TRP	1018	-19.535	-6.867	27.336	1.00	18.11
ATOM	6-73	OE1	TRP	1018	-19.405	-8.151	27.112	1.00	18.36
ATOM	6-74	OE2	TRP	1018	-16.872	-5.799	27.130	1.00	16.22
ATOM	6-75	CH1	TRP	1018	-21.646	-6.139	27.133	1.00	20.49
ATOM	6-76	NE1	TRP	1018	-20.527	-6.933	27.130	1.00	20.28
ATOM	6-77	CZ2	TRP	1018	-18.049	-5.506	27.133	1.00	18.14
ATOM	6-78	CZ3	TRP	1018	-17.523	-6.146	27.364	1.00	17.33
ATOM	6-79	CH2	TRP	1018	-17.129	-7.495	27.430	1.00	16.17
ATOM	6-80	C	TRP	1018	-14.693	-5.131	24.899	1.00	18.63
ATOM	6-81	O	TRP	1018	-12.943	-4.133	24.961	1.00	20.25

ATOM	6882	N	LEU	1019	-21.612	-6.143	23.992	1.00	17.89
ATOM	6883	CA	LEU	1019	-20.591	-6.140	22.942	1.00	18.19
ATOM	6884	CB	LEU	1019	-20.134	-7.581	22.671	1.00	18.15
ATOM	6885	CG	LEU	1019	-19.217	-8.224	23.742	1.00	18.92
ATOM	6886	CD1	LEU	1019	-18.955	-9.687	21.341	1.00	18.85
ATOM	6887	CD2	LEU	1019	-17.904	-7.481	23.846	1.00	15.93
ATOM	6888	C	LEU	1019	-21.014	-5.584	21.613	1.00	18.71
ATOM	6889	O	LEU	1019	-20.206	-5.355	20.797	1.00	18.84
ATOM	6890	N	VAL	1020	-22.301	-5.190	21.496	1.00	14.79
ATOM	6891	CA	VAL	1020	-22.801	-4.642	20.272	1.00	16.19
ATOM	6892	CB	VAL	1020	-24.281	-4.115	20.449	1.00	20.01
ATOM	6893	CG1	VAL	1020	-24.714	-3.784	19.347	1.00	18.49
ATOM	6894	CG2	VAL	1020	-25.214	-5.361	20.979	1.00	14.81
ATOM	6895	C	VAL	1020	-21.987	-3.478	19.708	1.00	20.01
ATOM	6896	O	VAL	1020	-21.506	-3.338	18.540	1.00	21.16
ATOM	6897	N	GLU	1021	-21.607	-2.486	20.539	1.00	20.63
ATOM	6898	CA	GLU	1021	-20.800	-1.551	20.197	1.00	21.11
ATOM	6899	CB	GLU	1021	-20.744	-0.755	21.254	1.00	24.19
ATOM	6900	CG	GLU	1021	-19.500	0.001	20.052	1.00	31.81
ATOM	6901	CD	GLU	1021	-19.701	1.897	21.994	1.00	30.88
ATOM	6902	OE1	GLU	1021	-19.600	1.001	23.193	1.00	30.88
ATOM	6903	OE2	GLU	1021	-20.001	3.000	21.006	1.00	30.88
ATOM	6904	C	GLU	1021	-19.501	-1.002	19.006	1.00	10.88
ATOM	6905	O	GLU	1021	-19.000	-1.007	13.005	1.00	18.00
ATOM	6906	N	THR	1022	-18.801	-2.004	20.075	1.00	10.88
ATOM	6907	CA	THR	1022	-17.500	-2.007	20.100	1.00	11.88
ATOM	6908	CB	THR	1022	-17.001	-4.002	21.103	1.00	10.88
ATOM	6909	CG1	THR	1022	-16.800	-3.003	22.100	1.00	10.88
ATOM	6910	CG2	THR	1022	-15.600	-4.006	20.121	1.00	10.88
ATOM	6911	C	THR	1022	-17.500	-3.001	13.004	1.00	10.88
ATOM	6912	O	THR	1022	-16.700	-3.000	17.008	1.00	10.88
ATOM	6913	N	VAL	1023	-16.500	-4.000	13.008	1.00	10.88
ATOM	6914	CA	VAL	1023	-16.742	-5.415	17.132	1.00	10.88
ATOM	6915	CB	VAL	1023	-16.913	-6.002	17.017	1.00	10.88
ATOM	6916	CG1	VAL	1023	-21.100	-5.003	15.007	1.00	10.88
ATOM	6917	CG2	VAL	1023	-17.600	-5.004	18.003	1.00	10.88
ATOM	6918	C	VAL	1023	-16.902	-4.004	16.042	1.00	10.88
ATOM	6919	O	VAL	1023	-16.300	-4.006	14.006	1.00	10.88
ATOM	6920	N	GLN	1024	-16.800	-3.008	16.000	1.00	10.88
ATOM	6921	CA	GLN	1024	-21.100	-3.000	15.169	1.00	20.88
ATOM	6922	CB	GLN	1024	-21.151	-1.008	15.851	1.00	21.88
ATOM	6923	CG	GLN	1024	-21.404	-1.008	16.007	1.00	20.88
ATOM	6924	CD	GLN	1024	-21.517	-1.009	16.479	1.00	31.88
ATOM	6925	OE1	GLN	1024	-21.200	-0.005	17.049	1.00	31.88
ATOM	6926	NE2	GLN	1024	-24.700	-1.009	15.071	1.00	21.88
ATOM	6927	C	GLN	1024	-16.841	-1.000	14.040	1.00	10.88
ATOM	6928	O	GLN	1024	-16.519	-1.001	13.114	1.00	10.88
ATOM	6929	N	MET	1025	-16.104	-1.009	15.117	1.00	10.88
ATOM	6930	CA	MET	1025	-16.800	-0.008	15.445	1.00	10.88
ATOM	6931	CB	MET	1025	-16.308	0.005	16.716	1.00	10.88
ATOM	6932	CG	MET	1025	-17.302	1.124	17.143	1.00	10.88
ATOM	6933	SD	MET	1025	-16.804	1.000	18.708	1.00	10.88
ATOM	6934	CE	MET	1025	-16.842	2.046	17.009	1.00	10.88
ATOM	6935	C	MET	1025	-16.761	-1.003	14.071	1.00	10.88
ATOM	6936	O	MET	1025	-16.006	-1.000	13.003	1.00	10.88
ATOM	6937	N	LEU	1026	-16.000	-2.019	15.004	1.00	10.88
ATOM	6938	CA	LEU	1026	-14.002	-3.004	14.002	1.00	14.07
ATOM	6939	CB	LEU	1026	-14.000	-4.000	15.003	1.00	10.88
ATOM	6940	CG	LEU	1026	-16.041	-4.002	16.002	1.00	10.88
ATOM	6941	CD1	LEU	1026	-14.100	-6.007	17.004	1.00	10.88
ATOM	6942	CD2	LEU	1026	-10.004	-4.000	10.003	1.00	10.88
ATOM	6943	C	LEU	1026	-14.001	-3.001	13.003	1.00	10.88
ATOM	6944	O	LEU	1026	-13.000	-3.000	12.008	1.00	10.88
ATOM	6945	N	THR	1027	-16.003	-4.005	10.917	1.00	10.88
ATOM	6946	CA	THR	1027	-16.007	-4.004	11.514	1.00	10.88
ATOM	6947	CB	THR	1027	-17.003	-4.000	11.369	1.00	10.88
ATOM	6948	CG1	THR	1027	-16.001	-5.000	12.150	1.00	10.88
ATOM	6949	CG2	THR	1027	-18.108	-4.004	9.905	1.00	30.88
ATOM	6950	C	THR	1027	-15.023	-3.177	10.645	1.00	20.88
ATOM	6951	O	THR	1027	-15.001	-3.078	9.630	1.00	20.88
ATOM	6952	N	GLU	1028	-16.015	-1.007	11.005	1.00	20.88
ATOM	6953	CA	GLU	1028	-15.045	-0.007	10.181	1.00	20.88
ATOM	6954	CB	GLU	1028	-16.078	0.466	10.643	1.00	20.88
ATOM	6955	CG	GLU	1028	-17.000	0.487	12.105	1.00	20.88
ATOM	6956	CD	GLU	1028	-17.032	1.740	12.511	1.00	20.88
ATOM	6957	OE1	GLU	1028	-16.004	2.000	11.000	1.00	20.88
ATOM	6958	OE2	GLU	1028	-17.000	2.460	10.498	1.00	24.11

ATOM	6959	C	GLU	1028	-14.433	-0.597	10.173	1.00	24.26
ATOM	6960	O	GLU	1028	-13.895	0.084	9.294	1.00	24.65
ATOM	6961	N	ARG	1029	-13.740	-1.196	11.137	1.00	21.79
ATOM	6962	CA	ARG	1029	-13.795	-1.075	11.178	1.00	19.58
ATOM	6963	CB	ARG	1029	-11.830	-0.831	11.611	1.00	18.96
ATOM	6964	CG	ARG	1029	-13.742	0.557	11.093	1.00	20.16
ATOM	6965	CD	ARG	1029	-13.178	0.735	14.377	1.00	16.37
ATOM	6966	NE	ARG	1029	-12.643	1.075	14.844	1.00	18.38
ATOM	6967	CZ	ARG	1029	-13.791	1.624	14.747	1.00	15.81
ATOM	6968	NH1	ARG	1029	-14.700	1.745	14.197	1.00	15.80
ATOM	6969	NH2	ARG	1029	-14.302	3.762	15.104	1.00	17.73
ATOM	6970	C	ARG	1029	-11.613	-0.299	10.548	1.00	18.96
ATOM	6971	O	ARG	1029	-10.179	-0.623	10.887	1.00	18.45
ATOM	6972	N	ALA	1030	-12.711	-0.333	9.638	1.00	18.34
ATOM	6973	CA	ALA	1030	-11.849	-0.081	8.966	1.00	16.44
ATOM	6974	CB	ALA	1030	-10.722	-0.702	8.187	1.00	17.45
ATOM	6975	C	ALA	1030	-11.753	-0.404	9.599	1.00	15.45
ATOM	6976	O	ALA	1030	-11.684	-0.292	8.094	1.00	15.15
ATOM	6977	N	VAL	1031	-12.805	-0.544	10.966	1.00	14.41
ATOM	6978	CA	VAL	1031	-12.735	-0.783	11.527	1.00	14.99
ATOM	6979	CB	VAL	1031	-12.741	-0.311	11.999	1.00	15.65
ATOM	6980	CG1	VAL	1031	-12.700	-0.811	11.707	1.00	15.39
ATOM	6981	CG2	VAL	1031	-10.741	-0.895	11.987	1.00	16.52
ATOM	6982	C	VAL	1031	-12.713	-0.545	11.587	1.00	14.99
ATOM	6983	O	VAL	1031	-13.499	-0.274	11.277	1.00	14.39
ATOM	6984	N	PRO	1032	-13.781	-0.726	11.947	1.00	13.45
ATOM	6985	CA	PRO	1032	-11.745	-0.321	9.802	1.00	14.69
ATOM	6986	CB	PRO	1032	-14.766	-0.531	11.987	1.00	18.76
ATOM	6987	CG	PRO	1032	-14.735	-1.534	11.777	1.00	17.79
ATOM	6988	C	PRO	1032	-13.713	-1.022	10.099	1.00	18.95
ATOM	6989	O	PRO	1032	-14.772	-1.187	11.787	1.00	17.78
ATOM	6990	O	PRO	1032	-13.710	-1.572	11.907	1.00	14.89
ATOM	6991	N	VAL	1033	-14.707	-1.298	10.987	1.00	17.61
ATOM	6992	CA	VAL	1033	-14.765	-10.846	11.713	1.00	17.90
ATOM	6993	CB	VAL	1033	-14.701	-0.876	11.137	1.00	18.98
ATOM	6994	CG1	VAL	1033	-12.712	-1.543	11.814	1.00	17.93
ATOM	6995	CG2	VAL	1033	-12.868	-0.966	11.184	1.00	17.31
ATOM	6996	C	VAL	1033	-12.705	-1.047	14.829	1.00	14.30
ATOM	6997	O	VAL	1033	-14.719	-1.078	11.789	1.00	15.35
ATOM	6998	N	TYR	1034	-14.788	-1.040	15.717	1.00	17.45
ATOM	6999	CA	TYR	1034	-12.707	-14.732	12.727	1.00	14.91
ATOM	7000	CB	TYR	1034	-16.739	-15.504	18.877	1.00	13.36
ATOM	7001	SG	TYR	1034	-17.760	-17.705	18.857	1.00	13.35
ATOM	7002	C	TYR	1034	-16.737	-14.797	11.761	1.00	13.22
ATOM	7003	O	TYR	1034	-17.751	-18.898	19.862	1.00	13.90
ATOM	7004	N	GLY	1035	-12.770	-14.775	11.751	1.00	15.48
ATOM	7005	CA	GLY	1035	-12.740	-14.771	11.777	1.00	15.44
ATOM	7006	C	GLY	1035	-12.726	-11.797	11.797	1.00	15.74
ATOM	7007	O	GLY	1035	-12.791	-12.722	11.794	1.00	16.26
ATOM	7008	N	HIS	1036	-20.707	-15.752	21.795	1.00	15.17
ATOM	7009	CA	HIS	1036	-21.727	-15.760	21.799	1.00	15.18
ATOM	7010	CB	HIS	1036	-18.792	-16.744	21.767	1.00	16.13
ATOM	7011	CG	HIS	1036	-18.735	-16.721	21.745	1.00	17.13
ATOM	7012	CD	HIS	1036	-16.737	-16.743	21.775	1.00	13.91
ATOM	7013	ND1	HIS	1036	-17.765	-16.759	20.765	1.00	18.18
ATOM	7014	CE1	HIS	1036	-17.745	-16.729	21.771	1.00	20.16
ATOM	7015	NE2	HIS	1036	-18.722	-16.713	21.734	1.00	18.10
ATOM	7016	C	HIS	1036	-20.771	-16.797	21.723	1.00	15.56
ATOM	7017	O	HIS	1036	-19.705	-16.716	21.715	1.00	14.91
ATOM	7018	N	LEU	1037	-22.772	-11.739	21.727	1.00	14.85
ATOM	7019	CA	LEU	1037	-23.779	-11.775	23.724	1.00	19.01
ATOM	7020	CB	LEU	1037	-21.734	-10.731	22.763	1.00	19.62
ATOM	7021	CG	LEU	1037	-21.784	-11.741	22.767	1.00	20.49
ATOM	7022	CD	LEU	1037	-25.781	-21.770	21.733	1.00	21.01
ATOM	7023	CE1	LEU	1037	-21.784	-11.717	23.716	1.00	22.34
ATOM	7024	C	LEU	1037	-23.777	-11.734	23.714	1.00	20.82
ATOM	7025	O	LEU	1037	-22.770	-11.775	23.719	1.00	20.67
ATOM	7026	N	GLY	1038	-23.767	-16.710	25.048	1.00	22.55
ATOM	7027	CA	GLY	1038	-24.771	-16.737	25.764	1.00	25.64
ATOM	7028	C	GLY	1038	-23.704	-16.716	16.709	1.00	26.77
ATOM	7029	O	GLY	1038	-23.771	-18.744	17.767	1.00	27.66
ATOM	7030	N	LEU	1039	-22.719	-20.751	26.725	1.00	28.14
ATOM	7031	CA	LEU	1039	-21.755	-21.731	27.796	1.00	29.16
ATOM	7032	CB	LEU	1039	-21.735	-22.736	28.773	1.00	31.17
ATOM	7033	CG	LEU	1039	-20.766	-23.753	29.703	1.00	33.32
ATOM	7034	CD	LEU	1039	-21.719	-24.774	29.720	1.00	35.05
ATOM	7035	CE1	LEU	1039	-19.757	-25.780	29.741	1.00	34.77

ATOM	7036	C	LEU	1039	-20.310	-20.500	27.530	1.00	28.75
ATOM	7037	O	LEU	1039	-19.542	-21.185	26.830	1.00	30.49
ATOM	7038	N	THR	1040	-20.049	-19.390	28.085	1.00	29.32
ATOM	7039	CA	THR	1040	-18.806	-18.677	27.806	1.00	29.10
ATOM	7040	CB	THR	1040	-19.047	-17.147	27.708	1.00	30.20
ATOM	7041	OG1	THR	1040	-19.832	-16.755	26.844	1.00	29.44
ATOM	7042	OG2	THR	1040	-19.638	-16.747	26.445	1.00	32.08
ATOM	7043	C	THR	1040	-17.732	-18.494	28.699	1.00	29.48
ATOM	7044	O	THR	1040	-17.858	-18.435	28.960	1.00	29.20
ATOM	7045	N	PRO	1041	-16.850	-19.928	28.597	1.00	28.41
ATOM	7046	CD	PRO	1041	-16.550	-20.464	27.746	1.00	28.58
ATOM	7047	CA	PRO	1041	-15.737	-20.463	29.518	1.00	27.51
ATOM	7048	CB	PRO	1041	-14.849	-21.246	28.661	1.00	28.87
ATOM	7049	CG	PRO	1041	-15.192	-20.773	28.279	1.00	32.25
ATOM	7050	C	PRO	1041	-14.872	-19.275	29.228	1.00	26.35
ATOM	7051	O	PRO	1041	-14.454	-19.483	31.350	1.00	24.47
ATOM	7052	N	GLN	1042	-14.892	-18.176	29.558	1.00	23.87
ATOM	7053	CA	GLN	1042	-14.041	-17.910	31.268	1.00	23.26
ATOM	7054	CB	GLN	1042	-13.831	-15.855	31.020	1.00	21.84
ATOM	7055	CG	GLN	1042	-13.681	-16.911	30.777	1.00	19.12
ATOM	7056	CD	GLN	1042	-13.640	-14.413	31.118	1.00	22.17
ATOM	7057	OE1	GLN	1042	-13.081	-13.755	31.475	1.00	21.44
ATOM	7058	NE2	GLN	1042	-13.000	-15.241	30.047	1.00	19.01
ATOM	7059	C	GLN	1042	-14.737	-16.550	31.147	1.00	22.74
ATOM	7060	O	GLN	1042	-14.084	-16.134	31.347	1.00	22.85
ATOM	7061	N	SER	1043	-16.065	-16.759	31.535	1.00	24.42
ATOM	7062	CA	SER	1043	-16.350	-16.750	31.727	1.00	24.75
ATOM	7063	CB	SER	1043	-16.131	-15.750	31.306	1.00	16.19
ATOM	7064	CG	SER	1043	-16.160	-14.811	31.563	1.00	19.55
ATOM	7065	C	SER	1043	-16.851	-17.493	31.719	1.00	14.12
ATOM	7066	O	SER	1043	-17.845	-17.449	33.581	1.00	15.87
ATOM	7067	N	VAL	1044	-16.549	-18.514	31.575	1.00	13.32
ATOM	7068	CA	VAL	1044	-16.177	-19.425	31.454	1.00	11.11
ATOM	7069	CB	VAL	1044	-15.154	-20.632	31.340	1.00	10.18
ATOM	7070	CG1	VAL	1044	-16.718	-19.411	31.814	1.00	22.98
ATOM	7071	CG2	VAL	1044	-15.165	-21.856	31.734	1.00	11.04
ATOM	7072	C	VAL	1044	-14.155	-19.456	31.733	1.00	11.48
ATOM	7073	O	VAL	1044	-17.055	-19.952	31.683	1.00	11.24
ATOM	7074	N	ASN	1045	-16.626	-18.357	30.756	1.00	22.15
ATOM	7075	CA	ASN	1045	-15.655	-17.879	31.761	1.00	14.44
ATOM	7076	CB	ASN	1045	-14.846	-16.411	31.491	1.00	13.02
ATOM	7077	CG	ASN	1045	-15.187	-17.545	31.313	1.00	11.46
ATOM	7078	OD1	ASN	1045	-14.856	-18.447	31.656	1.00	11.03
ATOM	7079	ND2	ASN	1045	-14.453	-17.826	30.804	1.00	10.14
ATOM	7080	C	ASN	1045	-17.019	-17.237	31.197	1.00	15.56
ATOM	7081	O	ASN	1045	-15.455	-17.359	31.257	1.00	16.12
ATOM	7082	N	ILE	1046	-17.666	-16.693	31.115	1.00	17.17
ATOM	7083	CA	ILE	1046	-17.862	-15.557	31.342	1.00	16.78
ATOM	7084	CB	ILE	1046	-17.399	-15.116	30.141	1.00	11.75
ATOM	7085	CG1	ILE	1046	-20.322	-14.616	30.556	1.00	14.76
ATOM	7086	CG2	ILE	1046	-18.440	-13.933	30.379	1.00	19.31
ATOM	7087	CD1	ILE	1046	-14.113	-12.376	31.145	1.00	18.62
ATOM	7088	C	ILE	1046	-20.023	-17.387	31.151	1.00	13.56
ATOM	7089	O	ILE	1046	-20.441	-16.371	30.466	1.00	13.88
ATOM	7090	N	PRO	1047	-20.008	-18.954	30.993	1.00	16.05
ATOM	7091	CA	PHE	1047	-20.977	-19.174	30.783	1.00	11.54
ATOM	7092	CB	PHE	1047	-21.127	-19.378	30.430	1.00	11.90
ATOM	7093	CG	PHE	1047	-21.777	-18.346	31.777	1.00	11.16
ATOM	7094	CD1	PHE	1047	-20.419	-18.659	31.313	1.00	15.03
ATOM	7095	CD2	PHE	1047	-20.577	-19.113	31.141	1.00	11.04
ATOM	7096	CE1	PHE	1047	-20.660	-17.177	31.334	1.00	13.51
ATOM	7097	CE2	PHE	1047	-20.331	-18.157	31.57	1.00	15.77
ATOM	7098	CG	PHE	1047	-21.831	-17.143	32.164	1.00	16.13
ATOM	7099	C	PHE	1047	-20.553	-18.254	31.323	1.00	11.11
ATOM	7100	O	PHE	1047	-21.134	-17.352	31.60	1.00	11.54
ATOM	7101	N	GLY	1048	-18.275	-20.118	30.174	1.00	11.74
ATOM	7102	CA	GLY	1048	-18.763	-21.177	29.153	1.00	11.32
ATOM	7103	C	GLY	1048	-18.683	-22.550	28.561	1.00	11.50
ATOM	7104	O	GLY	1048	-18.993	-23.846	29.220	1.00	12.75
ATOM	7105	N	GLY	1049	-18.162	-22.617	27.366	1.00	13.22
ATOM	7106	CA	GLY	1049	-18.140	-23.883	26.679	1.00	15.01
ATOM	7107	C	GLY	1049	-18.709	-23.159	25.279	1.00	14.15
ATOM	7108	O	GLY	1049	-19.129	-22.753	24.800	1.00	15.08
ATOM	7109	N	TYR	1050	-18.725	-24.919	24.513	1.00	17.77
ATOM	7110	CA	TYR	1050	-19.155	-24.840	23.157	1.00	14.51
ATOM	7111	CB	TYR	1050	-18.612	-25.777	22.277	1.00	19.59
ATOM	7112	CG	TYR	1050	-18.997	-25.161	22.246	1.00	19.48

ATCM	7117	CD1	TYR	1050	-15.963	-14.674	33.152	1.00	49.47
ATCM	7118	CE1	TYR	1050	-14.669	-14.170	34.146	1.00	50.01
ATCM	7119	CD2	TYR	1050	-16.499	-14.166	31.336	1.00	44.76
ATCM	7119	CE2	TYR	1050	-15.107	-14.682	31.411	1.00	44.86
ATCM	7117	CZ	TYR	1050	-14.898	-14.159	32.333	1.00	50.33
ATCM	7118	OH	TYR	1050	-13.019	-14.682	32.336	1.00	50.67
ATCM	7119	C	TYR	1050	-23.035	-14.176	33.136	1.00	50.55
ATCM	7120	O	TYR	1050	-23.078	-23.270	31.836	1.00	50.84
ATCM	7121	N	LYS	1051	-21.048	-14.760	33.411	1.00	51.54
ATCM	7122	CA	LYS	1051	-23.031	-14.718	33.444	1.00	52.63
ATCM	7123	CB	LYS	1051	-23.038	-14.719	34.061	1.00	53.67
ATCM	7124	CG	LYS	1051	-23.063	-14.730	35.060	1.00	55.80
ATCM	7125	CD	LYS	1051	-23.061	-14.961	34.067	1.00	52.82
ATCM	7126	CE	LYS	1051	-23.068	-14.076	34.068	1.00	53.73
ATCM	7127	NZ	LYS	1051	-23.192	-14.319	33.410	1.00	58.17
ATCM	7128	C	LYS	1051	-23.056	-14.894	34.065	1.00	52.42
ATCM	7129	O	LYS	1051	-23.055	-14.850	31.495	1.00	51.97
ATCM	7130	N	VAL	1052	-23.821	-14.816	31.833	1.00	52.32
ATCM	7131	CA	VAL	1052	-23.059	-14.817	31.833	1.00	52.55
ATCM	7132	CB	VAL	1052	-23.058	-14.817	32.199	1.00	51.86
ATCM	7133	CG1	VAL	1052	-23.033	-14.817	32.199	1.00	51.77
ATCM	7134	CG2	VAL	1052	-23.071	-14.818	32.147	1.00	51.56
ATCM	7135	C	VAL	1052	-23.011	-14.819	32.179	1.00	52.86
ATCM	7136	O	VAL	1052	-23.097	-14.818	31.833	1.00	52.72
ATCM	7137	N	GLN	1053	-23.444	-14.814	32.174	1.00	53.38
ATCM	7138	CA	GLN	1053	-23.020	-14.817	32.174	1.00	53.40
ATCM	7139	CB	GLN	1053	-23.328	-14.814	32.174	1.00	53.64
ATCM	7140	CG	GLN	1053	-23.098	-14.814	32.174	1.00	54.11
ATCM	7141	CD	GLN	1053	-23.607	-14.814	31.833	1.00	51.30
ATCM	7142	OE1	GLN	1053	-23.756	-14.815	32.174	1.00	55.32
ATCM	7143	NE2	GLN	1053	-23.697	-14.814	32.174	1.00	53.40
ATCM	7144	C	GLN	1053	-23.413	-14.814	32.174	1.00	53.18
ATCM	7145	O	GLN	1053	-23.567	-14.813	32.174	1.00	52.32
ATCM	7146	N	GLY	1054	-23.261	-14.814	32.174	1.00	51.68
ATCM	7147	CA	GLY	1054	-23.143	-14.815	32.174	1.00	54.65
ATCM	7148	C	GLY	1054	-23.591	-14.815	32.174	1.00	53.39
ATCM	7149	O	GLY	1054	-23.719	-14.815	32.174	1.00	55.28
ATCM	7150	N	ARG	1055	-14.303	-14.815	32.174	1.00	56.91
ATCM	7151	CA	ARG	1055	-14.313	-14.815	32.174	1.00	57.40
ATCM	7152	CB	ARG	1055	-14.674	-14.813	32.174	1.00	58.12
ATCM	7153	CG	ARG	1055	-14.714	-14.813	32.174	1.00	61.02
ATCM	7154	CD	ARG	1055	-14.455	-14.818	32.174	1.00	61.44
ATCM	7155	NE	ARG	1055	-14.566	-14.819	32.174	1.00	63.71
ATCM	7156	CZ	ARG	1055	-24.867	-14.815	31.834	1.00	64.04
ATCM	7157	NH1	ARG	1055	-24.943	-14.813	32.174	1.00	64.28
ATCM	7158	NH2	ARG	1055	-23.086	-14.813	32.174	1.00	64.25
ATCM	7159	C	ARG	1055	-14.403	-14.813	32.174	1.00	64.48
ATCM	7160	O	ARG	1055	-14.223	-14.817	31.836	1.00	64.81
ATCM	7161	N	GLY	1056	-14.533	-14.818	32.174	1.00	61.14
ATCM	7162	CA	GLY	1056	-14.613	-14.814	32.174	1.00	66.84
ATCM	7163	C	GLY	1056	-14.173	-14.813	29.552	1.00	66.31
ATCM	7164	O	GLY	1056	-14.678	-14.817	28.427	1.00	65.89
ATCM	7165	N	ASP	1057	-14.224	-14.818	32.174	1.00	66.37
ATCM	7166	CA	ASP	1057	-14.863	-14.813	32.174	1.00	66.25
ATCM	7167	CB	ASP	1057	-14.313	-14.813	32.174	1.00	67.60
ATCM	7168	CG	ASP	1057	-14.138	-14.816	32.174	1.00	58.32
ATCM	7169	OD1	ASP	1057	-14.313	-14.816	32.174	1.00	58.27
ATCM	7170	OD2	ASP	1057	-14.583	-20.113	32.174	1.00	58.42
ATCM	7171	C	ASP	1057	-14.113	-17.152	32.174	1.00	55.73
ATCM	7172	O	ASP	1057	-14.653	-17.154	32.174	1.00	55.55
ATCM	7173	N	GLU	1058	-14.993	-16.878	32.174	1.00	54.61
ATCM	7174	CA	GLU	1058	-14.833	-15.820	32.174	1.00	53.66
ATCM	7175	CB	GLU	1058	-14.817	-15.825	32.174	1.00	54.74
ATCM	7176	CG	GLU	1058	-14.451	-13.809	32.174	1.00	55.54
ATCM	7177	CD	GLU	1058	-14.451	-13.809	32.174	1.00	57.81
ATCM	7178	OE1	GLU	1058	-14.451	-12.809	32.174	1.00	55.67
ATCM	7179	OE2	GLU	1058	-14.451	-13.817	32.174	1.00	55.77
ATCM	7180	C	GLU	1058	-14.906	-15.700	29.446	1.00	52.45
ATCM	7181	O	GLU	1058	-14.507	-14.990	28.515	1.00	52.70
ATCM	7182	N	ALA	1059	-14.905	-16.626	29.447	1.00	52.70
ATCM	7183	CA	ALA	1059	-14.741	-16.820	29.440	1.00	48.43
ATCM	7184	CB	ALA	1059	-14.905	-17.834	30.277	1.00	48.71
ATCM	7185	C	ALA	1059	-14.740	-17.290	27.969	1.00	46.48
ATCM	7186	O	ALA	1059	-14.917	-16.913	27.153	1.00	46.62
ATCM	7187	N	GLY	1060	-14.763	-18.116	27.058	1.00	44.44
ATCM	7188	CA	GLY	1060	-14.905	-18.116	26.050	1.00	44.18
ATCM	7189	C	GLY	1060	-14.913	-17.441	26.050	1.00	41.78

AT-M	7190	C	GLY	1060	-33.539	-17.480	24.245	1.00	41.81
AT-M	7191	N	ASF	1061	-35.008	-16.540	25.667	1.00	40.66
AT-M	7192	CA	ASF	1061	-35.288	-15.401	24.797	1.00	38.57
AT-M	7193	CB	ASF	1061	-36.576	-14.686	25.726	1.00	39.86
AT-M	7194	CG	ASF	1061	-37.766	-15.616	25.318	1.00	39.94
AT-M	7195	CD1	ASF	1061	-38.627	-16.323	24.828	1.00	40.73
AT-M	7196	CD2	ASF	1061	-38.422	-15.634	26.375	1.00	41.22
AT-M	7197	C	ASF	1061	-34.131	-14.402	24.837	1.00	37.48
AT-M	7198	C	ASF	1061	-32.857	-13.719	23.854	1.00	37.88
AT-M	7199	N	GLN	1062	-32.464	-14.332	23.983	1.00	37.98
AT-M	7200	CA	GLN	1062	-32.332	-13.426	26.185	1.00	34.74
AT-M	7201	CB	GLN	1062	-31.807	-13.508	27.586	1.00	35.48
AT-M	7202	CG	GLN	1062	-30.672	-12.553	27.895	1.00	36.95
AT-M	7203	CD	GLN	1062	-31.115	-11.083	27.786	1.00	38.82
AT-M	7204	CE1	GLN	1062	-32.048	-10.653	28.465	1.00	38.85
AT-M	7205	CE2	GLN	1062	-30.439	-10.320	27.933	1.00	38.90
AT-M	7206	C	GLN	1062	-31.225	-12.777	25.175	1.00	33.11
AT-M	7207	C	GLN	1062	-30.671	-12.899	24.521	1.00	31.37
AT-M	7208	N	LEU	1063	-30.904	-12.064	25.082	1.00	32.43
AT-M	7209	CA	LEU	1063	-29.861	-12.521	24.176	1.00	31.26
AT-M	7210	CB	LEU	1063	-29.584	-12.003	24.405	1.00	32.11
AT-M	7211	CG	LEU	1063	-28.963	-12.413	24.714	1.00	33.18
AT-M	7212	CD1	LEU	1063	-28.633	-12.923	23.726	1.00	34.28
AT-M	7213	CD2	LEU	1063	-27.160	-12.701	23.837	1.00	33.19
AT-M	7214	C	LEU	1063	-29.243	-12.787	21.718	1.00	31.49
AT-M	7215	C	LEU	1063	-29.419	-14.334	21.916	1.00	29.48
AT-M	7216	N	LEU	1064	-27.594	-15.634	22.385	1.00	30.16
AT-M	7217	CA	LEU	1064	-27.334	-15.334	21.034	1.00	31.20
AT-M	7218	CB	LEU	1064	-28.141	-15.790	20.839	1.00	32.12
AT-M	7219	CG	LEU	1064	-24.097	-11.738	20.113	1.00	34.13
AT-M	7220	CD1	LEU	1064	-25.286	-16.700	19.481	1.00	31.13
AT-M	7221	CD2	LEU	1064	-24.536	-14.350	19.182	1.00	34.13
AT-M	7222	C	LEU	1064	-21.965	-13.856	20.628	1.00	29.35
AT-M	7223	C	LEU	1064	-21.476	-13.484	19.152	1.00	28.23
AT-M	7224	N	SER	1065	-22.101	-13.898	21.622	1.00	27.84
AT-M	7225	CA	SER	1065	-22.166	-11.572	21.475	1.00	27.16
AT-M	7226	CB	SER	1065	-22.641	-12.830	22.627	1.00	27.11
AT-M	7227	CG	SER	1065	-22.419	-13.429	22.433	1.00	29.13
AT-M	7228	CD	SER	1065	-22.662	-11.156	21.212	1.00	26.13
AT-M	7229	C	SER	1065	-20.333	-10.226	23.557	1.00	26.63
AT-M	7230	N	ASP	1066	-19.741	-11.603	22.035	1.00	23.66
AT-M	7231	CA	ASP	1066	-18.735	-11.340	21.833	1.00	24.38
AT-M	7232	CB	ASP	1066	-22.432	-11.369	22.333	1.00	23.67
AT-M	7233	CG	ASP	1066	-27.730	-11.348	24.338	1.00	28.73
AT-M	7234	CD1	ASP	1066	-27.260	-10.137	24.381	1.00	29.67
AT-M	7235	CD2	ASP	1066	-27.775	-12.027	29.351	1.00	31.25
AT-M	7236	C	ASP	1066	-27.733	-11.781	29.524	1.00	23.83
AT-M	7237	C	ASP	1066	-16.868	-11.029	19.915	1.00	23.43
AT-M	7238	N	ALA	1067	-18.335	-12.945	20.063	1.00	23.41
AT-M	7239	CA	ALA	1067	-17.812	-13.478	18.776	1.00	21.13
AT-M	7240	CB	ALA	1067	-22.459	-14.843	18.547	1.00	21.43
AT-M	7241	CG	ALA	1067	-22.316	-12.516	17.665	1.00	22.46
AT-M	7242	CD	ALA	1067	-22.419	-12.164	16.499	1.00	23.33
AT-M	7243	N	LEU	1068	-22.437	-12.021	17.683	1.00	23.91
AT-M	7244	CA	LEU	1068	-22.461	-11.297	16.668	1.00	23.25
AT-M	7245	CB	LEU	1068	-21.464	-10.912	16.444	1.00	23.25
AT-M	7246	CG	LEU	1068	-22.464	-12.116	16.439	1.00	23.69
AT-M	7247	CD1	LEU	1068	-22.768	-11.876	17.912	1.00	25.32
AT-M	7248	CD2	LEU	1068	-22.390	-12.319	14.955	1.00	24.63
AT-M	7249	C	LEU	1068	-22.224	-9.333	16.784	1.00	29.46
AT-M	7250	C	LEU	1068	-22.926	-9.219	15.791	1.00	29.46
AT-M	7251	N	ALA	1069	-22.224	-9.446	13.916	1.00	21.21
AT-M	7252	CA	ALA	1069	-22.231	-8.116	15.233	1.00	23.51
AT-M	7253	CB	ALA	1069	-22.233	-7.339	13.733	1.00	21.21
AT-M	7254	CG	ALA	1069	-22.303	-9.231	17.757	1.00	28.73
AT-M	7255	CD	ALA	1069	-22.427	-7.217	17.201	1.00	17.75
AT-M	7256	N	LEU	1070	-20.117	-9.323	17.329	1.00	19.41
AT-M	7257	CA	LEU	1070	-24.743	-9.440	17.455	1.00	18.83
AT-M	7258	CB	LEU	1070	-24.331	-10.739	13.005	1.00	18.63
AT-M	7259	CG	LEU	1070	-23.313	-10.721	19.515	1.00	17.65
AT-M	7260	CD1	LEU	1070	-23.361	-12.111	19.965	1.00	17.93
AT-M	7261	CD2	LEU	1070	-23.750	-9.639	19.849	1.00	16.49
AT-M	7262	C	LEU	1070	-24.741	-9.435	15.933	1.00	18.26
AT-M	7263	C	LEU	1070	-23.847	-8.791	15.303	1.00	16.25
AT-M	7264	N	GLU	1071	-25.642	-10.141	15.327	1.00	19.53
AT-M	7265	CA	GLU	1071	-25.234	-10.178	13.872	1.00	19.82
AT-M	7266	CB	GLU	1071	-26.992	-11.122	13.445	1.00	13.75

ATCM	7267	CG	GLU	1071	-27.158	-11.196	11.944	1.00	23.57
ATCM	7268	CD	GLU	1071	-28.293	-12.133	11.587	1.00	25.87
ATCM	7269	OE1	GLU	1071	-29.437	-11.938	12.111	1.00	26.11
ATCM	7270	OE2	GLU	1071	-28.075	-13.063	10.783	1.00	27.62
ATCM	7271	C	GLU	1071	-26.069	-8.775	11.324	1.00	19.77
ATCM	7272	O	GLU	1071	-25.424	-8.339	12.374	1.00	17.58
ATCM	7273	B	ALA	1072	-27.028	-8.071	13.922	1.00	20.66
ATCM	7274	CA	ALA	1072	-27.208	-8.721	13.467	1.00	20.74
ATCM	7275	CB	ALA	1072	-28.549	-8.182	14.545	1.00	21.38
ATCM	7276	C	ALA	1072	-26.173	-8.786	13.630	1.00	22.41
ATCM	7277	O	ALA	1072	-26.934	-4.304	12.898	1.00	23.66
ATCM	7278	B	ALA	1073	-25.819	-6.199	14.548	1.00	22.57
ATCM	7279	CA	ALA	1073	-24.130	-5.295	14.856	1.00	19.70
ATCM	7280	CB	ALA	1073	-23.532	-5.816	16.241	1.00	20.35
ATCM	7281	C	ALA	1073	-23.958	-5.530	13.742	1.00	19.83
ATCM	7282	O	ALA	1073	-22.134	-4.730	13.647	1.00	19.10
ATCM	7283	B	GLY	1074	-23.167	-8.623	13.849	1.00	17.74
ATCM	7284	A	GLY	1074	-22.175	-8.891	11.618	1.00	17.83
ATCM	7285	C	GLY	1074	-21.454	-8.121	11.315	1.00	17.14
ATCM	7286	O	GLY	1074	-21.631	-8.545	11.319	1.00	17.08
ATCM	7287	C	ALA	1075	-21.777	-8.105	11.147	1.00	17.17
ATCM	7288	CA	ALA	1075	-21.907	-10.119	11.386	1.00	17.76
ATCM	7289	CB	ALA	1075	-21.844	-10.494	14.381	1.00	16.30
ATCM	7290	O	ALA	1075	-21.377	-11.160	13.117	1.00	18.43
ATCM	7291	C	ALA	1075	-21.657	-11.337	11.753	1.00	18.49
ATCM	7292	B	GLN	1076	-23.443	-11.790	11.467	1.00	17.65
ATCM	7293	CA	GLN	1076	-21.887	-12.825	10.243	1.00	19.07
ATCM	7294	CB	GLN	1076	-21.573	-11.163	8.137	1.00	20.10
ATCM	7295	CG	GLN	1076	-21.044	-10.567	8.666	1.00	21.35
ATCM	7296	CD	GLN	1076	-23.113	-10.864	11.317	1.00	23.30
ATCM	7297	OE1	GLN	1076	-23.157	-11.110	8.547	1.00	28.47
ATCM	7298	OE2	GLN	1076	-22.347	-9.300	8.164	1.00	19.31
ATCM	7299	O	GLN	1076	-21.787	-14.110	11.694	1.00	18.47
ATCM	7300	C	GLN	1076	-21.644	-13.435	8.781	1.00	21.05
ATCM	7301	B	LEU	1077	-21.777	-14.435	11.867	1.00	19.04
ATCM	7302	CA	LEU	1077	-21.540	-15.804	11.561	1.00	18.01
ATCM	7303	CB	LEU	1077	-23.163	-16.467	11.113	1.00	21.10
ATCM	7304	CG	LEU	1077	-23.837	-17.310	10.266	1.00	22.57
ATCM	7305	CD1	LEU	1077	-23.467	-17.821	10.000	1.00	24.08
ATCM	7306	CD2	LEU	1077	-23.878	-18.477	12.420	1.00	23.44
ATCM	7307	C	LEU	1077	-21.925	-15.799	12.511	1.00	17.66
ATCM	7308	O	LEU	1077	-20.829	-14.916	14.556	1.00	17.74
ATCM	7309	N	LEU	1078	-21.514	-16.895	14.733	1.00	16.01
ATCM	7310	CA	LEU	1078	-21.848	-17.619	13.755	1.00	17.44
ATCM	7311	CB	LEU	1078	-23.871	-16.731	13.664	1.00	18.43
ATCM	7312	CG	LEU	1078	-23.553	-16.847	11.666	1.00	19.34
ATCM	7313	CD1	LEU	1078	-23.157	-15.835	14.368	1.00	19.36
ATCM	7314	CD2	LEU	1078	-23.491	-16.717	11.661	1.00	20.01
ATCM	7315	C	LEU	1078	-21.695	-18.434	16.305	1.00	17.33
ATCM	7316	O	LEU	1078	-21.134	-19.335	15.963	1.00	18.22
ATCM	7317	N	VAL	1079	-21.037	-18.155	17.357	1.00	16.40
ATCM	7318	CA	VAL	1079	-21.836	-19.417	17.349	1.00	15.39
ATCM	7319	CB	VAL	1079	-19.864	-19.072	13.562	1.00	16.02
ATCM	7320	CG1	VAL	1079	-18.371	-21.189	13.519	1.00	15.66
ATCM	7321	CG2	VAL	1079	-18.376	-20.161	17.413	1.00	11.33
ATCM	7322	C	VAL	1079	-23.740	-19.377	13.163	1.00	18.15
ATCM	7323	O	VAL	1079	-21.315	-19.936	19.371	1.00	20.36
ATCM	7324	N	LEU	1080	-21.187	-21.113	19.135	1.00	20.11
ATCM	7325	CA	LEU	1080	-21.420	-21.101	20.736	1.00	20.37
ATCM	7326	CB	LEU	1080	-24.792	-21.777	19.530	1.00	21.39
ATCM	7327	CG	LEU	1080	-23.776	-20.654	19.401	1.00	23.39
ATCM	7328	CD1	LEU	1080	-21.092	-21.277	18.946	1.00	22.63
ATCM	7329	CD2	LEU	1080	-23.310	-19.734	20.637	1.00	13.90
ATCM	7330	C	LEU	1080	-23.876	-22.521	21.625	1.00	14.73
ATCM	7331	O	LEU	1081	-23.613	-23.657	23.116	1.00	18.71
ATCM	7332	N	GLU	1081	-23.334	-21.737	22.776	1.00	13.44
ATCM	7333	CA	GLU	1081	-23.110	-23.433	23.124	1.00	21.53
ATCM	7334	CB	GLU	1081	-23.760	-22.983	23.780	1.00	21.79
ATCM	7335	CG	GLU	1081	-23.181	-23.951	24.779	1.00	21.66
ATCM	7336	CD	GLU	1081	-19.876	-23.637	25.373	1.00	21.00
ATCM	7337	OE1	GLU	1081	-19.213	-22.519	24.712	1.00	24.72
ATCM	7338	OE2	GLU	1081	-17.969	-24.481	25.373	1.00	15.08
ATCM	7339	C	GLU	1081	-23.018	-23.897	24.364	1.00	21.09
ATCM	7340	O	GLU	1081	-23.554	-23.083	25.118	1.00	21.47
ATCM	7341	N	CYS	1082	-23.167	-21.215	24.431	1.00	23.33
ATCM	7342	CA	CYS	1082	-23.069	-22.861	25.503	1.00	22.00
ATCM	7343	CB	CYS	1082	-23.147	-22.117	25.773	1.00	22.10

ATCM	7344	SG	CYS	1082	-21.655	-26.930	26.505	1.00	27.14
ATCM	7345	C	CY	1090	-25.276	-23.148	25.800	1.00	25.48
ATCM	7346	C	CY	1091	-25.479	-24.431	26.795	1.00	25.29
ATCM	7347	N	VAL	1093	-26.273	-25.332	24.915	1.00	26.32
ATCM	7348	CA	VAL	1093	-27.501	-24.784	25.032	1.00	29.17
ATCM	7349	CB	VAL	1093	-27.646	-24.516	24.129	1.00	28.96
ATCM	7350	CS1	VAL	1093	-27.611	-24.990	22.655	1.00	30.28
ATCM	7351	CS2	VAL	1093	-28.893	-24.739	24.450	1.00	32.37
ATCM	7352	C	VAL	1093	-29.553	-24.880	24.508	1.00	29.38
ATCM	7353	C	VAL	1093	-23.176	-26.570	23.559	1.00	23.75
ATCM	7354	N	PRO	1094	-29.554	-24.911	25.173	1.00	30.74
ATCM	7355	CD	PRO	1094	-30.314	-25.031	26.170	1.00	29.84
ATCM	7356	CA	PRO	1094	-30.577	-26.896	24.686	1.00	30.71
ATCM	7357	CB	PRO	1094	-31.080	-26.510	25.471	1.00	30.48
ATCM	7358	CG	PRO	1094	-31.775	-25.853	25.837	1.00	31.75
ATCM	7359	C	PRO	1094	-30.308	-26.865	23.176	1.00	31.10
ATCM	7360	C	PRO	1094	-31.018	-25.794	22.572	1.00	32.64
ATCM	7361	N	VAL	1095	-30.783	-24.643	22.574	1.00	32.74
ATCM	7362	CA	VAL	1095	-31.167	-24.185	21.134	1.00	32.80
ATCM	7363	CB	VAL	1095	-31.461	-24.643	20.743	1.00	33.17
ATCM	7364	CG1	VAL	1095	-31.514	-24.573	19.279	1.00	33.71
ATCM	7365	CG2	VAL	1095	-30.180	-24.173	21.374	1.00	32.07
ATCM	7366	C	VAL	1095	-31.391	-24.175	20.672	1.00	34.73
ATCM	7367	C	VAL	1095	-33.324	-19.775	19.579	1.00	23.11
ATCM	7368	N	GLU	1096	-33.324	-19.176	21.477	1.00	26.11
ATCM	7369	CA	GLU	1096	-34.300	-16.871	21.171	1.00	18.16
ATCM	7370	CB	GLU	1096	-35.473	-16.364	22.317	1.00	40.09
ATCM	7371	CG	GLU	1096	-35.128	-16.775	20.175	1.00	42.70
ATCM	7372	CD	GLU	1096	-35.426	-16.784	21.477	1.00	44.40
ATCM	7373	CE1	GLU	1096	-36.420	-16.940	21.573	1.00	45.21
ATCM	7374	CE2	GLU	1096	-31.736	-19.164	22.614	1.00	45.77
ATCM	7375	C	GLU	1096	-31.197	-16.775	20.812	1.00	47.18
ATCM	7376	C	GLU	1096	-31.441	-16.440	19.738	1.00	47.62
ATCM	7377	N	LEU	1097	-32.370	-14.716	21.576	1.00	47.32
ATCM	7378	CA	LEU	1097	-32.828	-12.941	21.572	1.00	46.84
ATCM	7379	CB	LEU	1097	-31.197	-12.175	20.812	1.00	48.74
ATCM	7380	CG	LEU	1097	-32.167	-11.875	20.374	1.00	49.82
ATCM	7381	CD1	LEU	1097	-31.751	-11.074	24.670	1.00	40.16
ATCM	7382	CD2	LEU	1097	-31.777	-19.774	21.549	1.00	49.82
ATCM	7383	C	LEU	1097	-32.162	-12.941	20.845	1.00	46.18
ATCM	7384	C	LEU	1097	-32.141	-11.770	19.570	1.00	45.43
ATCM	7385	N	ALA	1098	-31.117	-10.778	20.173	1.00	45.37
ATCM	7386	CA	ALA	1098	-31.194	-10.757	19.078	1.00	44.44
ATCM	7387	CB	ALA	1098	-30.194	-14.774	19.076	1.00	42.98
ATCM	7388	CG	ALA	1098	-31.967	-12.770	17.772	1.00	45.07
ATCM	7389	C	ALA	1098	-31.130	-11.078	18.775	1.00	45.13
ATCM	7390	N	LYS	1099	-32.112	-14.772	17.675	1.00	46.10
ATCM	7391	CA	LYS	1099	-31.951	-14.472	18.473	1.00	47.34
ATCM	7392	CB	LYS	1099	-34.177	-15.293	18.772	1.00	40.32
ATCM	7393	CG	LYS	1099	-34.641	-16.772	17.074	1.00	42.41
ATCM	7394	CD	LYS	1099	-34.666	-15.679	17.374	1.00	46.64
ATCM	7395	CE	LYS	1099	-34.777	-16.870	17.818	1.00	46.35
ATCM	7396	HZ	LYS	1099	-31.751	-15.773	13.370	1.00	47.78
ATCM	7397	C	LYS	1099	-32.485	-17.774	16.171	1.00	45.60
ATCM	7398	C	LYS	1099	-31.770	-17.176	15.079	1.00	47.12
ATCM	7399	N	ARG	1100	-34.177	-17.774	17.141	1.00	45.99
ATCM	7400	CA	ARG	1090	-34.671	-17.779	16.917	1.00	46.46
ATCM	7401	CB	ARG	1090	-31.883	-20.711	18.147	1.00	48.53
ATCM	7402	CG	ARG	1090	-36.370	-21.772	18.862	1.00	42.68
ATCM	7403	CD	ARG	1090	-37.170	-20.772	19.772	1.00	45.65
ATCM	7404	CE	ARG	1090	-36.376	-19.775	20.844	1.00	49.14
ATCM	7405	C	ARG	1090	-36.441	-19.776	21.779	1.00	40.27
ATCM	7406	CH1	ARG	1090	-31.777	-19.779	21.776	1.00	47.07
ATCM	7407	CH2	ARG	1090	-31.777	-19.774	22.671	1.00	47.07
ATCM	7408	C	ARG	1090	-31.877	-21.778	19.776	1.00	44.77
ATCM	7409	C	ARG	1090	-31.877	-14.774	19.777	1.00	44.77
ATCM	7410	N	ILE	1091	-31.573	-14.776	17.777	1.00	42.74
ATCM	7411	CA	ILE	1091	-31.472	-14.759	16.770	1.00	40.49
ATCM	7412	CB	ILE	1091	-31.275	-14.779	17.470	1.00	39.84
ATCM	7413	CG	ILE	1091	-31.277	-14.774	17.371	1.00	40.77
ATCM	7414	CH1	ILE	1091	-31.719	-14.770	19.771	1.00	47.67
ATCM	7415	CH2	ILE	1091	-31.719	-14.776	20.772	1.00	48.67
ATCM	7416	C	ILE	1091	-31.874	-14.771	19.471	1.00	40.57
ATCM	7417	C	ILE	1091	-31.876	-16.774	14.770	1.00	39.26
ATCM	7418	N	THR	1092	-31.711	-10.570	15.079	1.00	39.74
ATCM	7419	CA	THR	1092	-30.173	-10.773	14.777	1.00	41.67
ATCM	7420	CB	THR	1092	-30.671	-10.773	14.775	1.00	41.77

ATOM	7421	CG1	THR	1092	-28.972	-22.827	14.648	1.00	31.53
ATOM	7422	CG2	THR	1092	-29.357	-21.760	12.763	1.00	29.73
ATOM	7423	C	THR	1092	-31.156	-20.517	12.754	1.00	31.78
ATOM	7424	O	THR	1092	-30.742	-20.039	11.602	1.00	32.76
ATOM	7425	N	GLU	1093	-32.142	-20.742	12.757	1.00	32.70
ATOM	7426	CA	GLU	1093	-33.167	-20.405	11.913	1.00	34.19
ATOM	7427	CB	GLU	1093	-34.743	-21.190	12.115	1.00	35.76
ATOM	7428	CG	GLU	1093	-34.531	-21.694	12.240	1.00	40.34
ATOM	7429	CD	GLU	1093	-35.781	-23.460	12.720	1.00	44.38
ATOM	7430	OE1	GLU	1093	-36.357	-23.178	15.635	1.00	46.79
ATOM	7431	OE2	GLU	1093	-36.195	-24.347	11.742	1.00	45.61
ATOM	7432	C	GLU	1093	-33.766	-18.909	11.913	1.00	32.84
ATOM	7433	O	GLU	1091	-34.238	-18.366	10.715	1.00	33.67
ATOM	7434	N	ALA	1094	-33.481	-18.244	13.174	1.00	32.28
ATOM	7435	CA	ALA	1094	-33.701	-16.310	13.135	1.00	30.66
ATOM	7436	CP	ALA	1094	-33.876	-16.430	14.632	1.00	31.89
ATOM	7437	C	ALA	1094	-32.604	-11.965	11.713	1.00	29.78
ATOM	7438	O	ALA	1094	-32.381	-11.312	11.917	1.00	29.51
ATOM	7439	N	LEU	1095	-32.258	-15.434	11.612	1.00	27.77
ATOM	7440	CA	LEU	1095	-30.740	-15.637	11.735	1.00	28.68
ATOM	7441	CB	LEU	1095	-28.673	-11.386	11.735	1.00	27.74
ATOM	7442	CG	LEU	1095	-23.775	-11.439	11.737	1.00	25.91
ATOM	7443	CD1	LEU	1095	-27.600	-15.687	11.641	1.00	28.78
ATOM	7444	CD2	LEU	1095	-29.400	-13.948	11.886	1.00	32.53
ATOM	7445	C	LEU	1095	-29.846	-16.374	11.681	1.00	25.11
ATOM	7446	O	LEU	1095	-30.563	-17.176	11.141	1.00	19.11
ATOM	7447	N	ALA	1096	-29.144	-15.216	8.713	1.00	13.77
ATOM	7448	CA	ALA	1096	-29.174	-15.211	7.427	1.00	14.16
ATOM	7449	CB	ALA	1096	-29.253	-11.921	7.656	1.00	16.96
ATOM	7450	C	ALA	1096	-27.742	-15.704	8.743	1.00	11.19
ATOM	7451	O	ALA	1096	-27.573	-15.473	7.346	1.00	11.77
ATOM	7452	N	ILE	1097	-26.910	-15.243	9.778	1.00	12.57
ATOM	7453	CA	ILE	1097	-25.577	-15.662	9.799	1.00	11.71
ATOM	7454	CB	ILE	1097	-24.653	-14.773	10.711	1.00	10.79
ATOM	7455	CG2	ILE	1097	-24.677	-13.339	9.755	1.00	18.63
ATOM	7456	CG1	ILE	1097	-25.141	-14.868	11.871	1.00	19.11
ATOM	7457	CD1	ILE	1097	-24.352	-14.130	11.681	1.00	19.73
ATOM	7458	C	ILE	1097	-23.782	-17.039	9.759	1.00	11.49
ATOM	7459	O	ILE	1097	-23.765	-17.534	10.489	1.00	10.76
ATOM	7460	N	PRO	1098	-24.813	-17.793	8.781	1.00	13.86
ATOM	7461	CD	PRO	1098	-23.754	-17.432	7.479	1.00	12.73
ATOM	7462	CA	PRO	1098	-24.137	-19.130	8.732	1.00	17.12
ATOM	7463	CB	PRO	1098	-23.994	-19.780	8.768	1.00	17.93
ATOM	7464	CG	PRO	1098	-23.216	-18.469	8.836	1.00	14.68
ATOM	7465	C	PRO	1098	-23.836	-19.316	11.719	1.00	15.49
ATOM	7466	O	PRO	1098	-23.150	-18.538	11.873	1.00	21.97
ATOM	7467	N	VAL	1099	-24.927	-20.317	11.870	1.00	11.40
ATOM	7468	CA	VAL	1099	-24.368	-20.569	11.711	1.00	19.33
ATOM	7469	CB	VAL	1099	-23.735	-20.657	14.748	1.00	11.89
ATOM	7470	CG1	VAL	1099	-15.513	-21.037	11.718	1.00	20.95
ATOM	7471	CG2	VAL	1099	-26.445	-19.348	11.692	1.00	19.13
ATOM	7472	C	VAL	1099	-23.593	-21.862	13.763	1.00	20.91
ATOM	7473	O	VAL	1099	-24.919	-22.929	13.113	1.00	21.10
ATOM	7474	N	ILE	1100	-22.469	-21.749	14.772	1.00	20.43
ATOM	7475	CA	ILE	1100	-21.606	-22.897	11.753	1.00	19.39
ATOM	7476	CB	ILE	1100	-22.196	-22.533	13.763	1.00	13.81
ATOM	7477	CG2	ILE	1100	-19.235	-23.709	11.614	1.00	21.73
ATOM	7478	CG1	ILE	1100	-19.407	-22.154	12.969	1.00	19.30
ATOM	7479	CD1	ILE	1100	-18.369	-21.678	12.638	1.00	18.31
ATOM	7480	C	ILE	1100	-21.462	-23.344	11.900	1.00	17.32
ATOM	7481	O	ILE	1100	-21.311	-22.541	16.955	1.00	19.15
ATOM	7482	N	GLY	1101	-22.126	-24.629	15.175	1.00	17.28
ATOM	7483	CA	GLY	1101	-22.392	-25.037	17.571	1.00	15.81
ATOM	7484	C	GLY	1101	-21.405	-26.058	13.134	1.00	16.33
ATOM	7485	O	GLY	1101	-20.797	-26.731	13.417	1.00	14.77
ATOM	7486	N	ILE	1102	-21.350	-25.126	13.477	1.00	16.31
ATOM	7487	CA	ILE	1102	-20.642	-27.655	20.217	1.00	17.13
ATOM	7488	CB	ILE	1102	-19.213	-26.493	20.587	1.00	15.15
ATOM	7489	CG2	ILE	1102	-19.297	-25.153	11.713	1.00	16.77
ATOM	7490	CG1	ILE	1102	-18.514	-27.477	11.519	1.00	17.78
ATOM	7491	CD1	ILE	1102	-17.043	-27.149	11.765	1.00	17.79
ATOM	7492	C	ILE	1102	-21.436	-27.320	11.467	1.00	16.49
ATOM	7493	O	ILE	1102	-21.652	-27.457	11.724	1.00	18.76
ATOM	7494	N	GLY	1103	-22.064	-28.515	21.125	1.00	18.69
ATOM	7495	CA	GLY	1103	-22.913	-28.857	23.647	1.00	19.60
ATOM	7496	C	GLY	1103	-24.075	-28.129	11.477	1.00	21.38
ATOM	7497	O	GLY	1103	-24.063	-27.771	11.713	1.00	21.77

ATOM	7498	N	ALA	1104	-24.657	-27.972	21.217	1.00	22.82
ATOM	7499	CA	ALA	1104	-25.931	-27.353	20.908	1.00	25.45
ATOM	7500	CB	ALA	1104	-25.716	-25.938	20.259	1.00	25.68
ATOM	7501	C	ALA	1104	-26.771	-28.136	19.947	1.00	25.86
ATOM	7502	O	ALA	1104	-27.833	-27.170	19.511	1.00	26.07
ATOM	7503	N	GLY	1105	-26.297	-29.448	19.722	1.00	26.02
ATOM	7504	CA	GLY	1105	-27.002	-30.151	18.872	1.00	26.19
ATOM	7505	C	GLY	1105	-26.597	-30.340	17.450	1.00	26.15
ATOM	7506	O	GLY	1105	-25.068	-29.094	17.087	1.00	27.27
ATOM	7507	N	ASN	1106	-27.170	-30.906	16.514	1.00	24.67
ATOM	7508	CA	ASN	1106	-26.846	-30.447	15.935	1.00	25.18
ATOM	7509	CB	ASN	1106	-27.107	-32.363	14.511	1.00	25.63
ATOM	7510	CG	ASN	1106	-28.406	-31.957	14.545	1.00	28.39
ATOM	7511	OD1	ASN	1106	-28.106	-33.841	13.810	1.00	30.86
ATOM	7512	NE2	ASN	1106	-29.167	-30.414	15.396	1.00	26.73
ATOM	7513	C	ASN	1106	-27.451	-30.186	14.271	1.00	25.16
ATOM	7514	O	ASN	1106	-27.830	-30.113	13.046	1.00	26.31
ATOM	7515	N	VAL	1107	-28.163	-30.141	14.949	1.00	27.94
ATOM	7516	CA	VAL	1107	-29.477	-28.317	14.287	1.00	27.66
ATOM	7517	CB	VAL	1107	-30.180	-27.153	15.151	1.00	26.04
ATOM	7518	CG1	VAL	1107	-31.968	-28.844	14.137	1.00	30.87
ATOM	7519	CG2	VAL	1107	-31.130	-28.862	13.896	1.00	31.84
ATOM	7520	O	VAL	1107	-28.151	-26.884	13.861	1.00	27.19
ATOM	7521	O	VAL	1107	-29.074	-26.315	12.914	1.00	26.00
ATOM	7522	CA	THR	1108	-27.347	-26.346	14.167	1.00	24.64
ATOM	7523	C	THR	1108	-26.166	-25.340	13.850	1.00	23.87
ATOM	7524	CB	THR	1108	-25.591	-25.277	14.606	1.00	21.19
ATOM	7525	CG1	THR	1108	-24.811	-26.822	14.941	1.00	27.82
ATOM	7526	CG2	THR	1108	-26.116	-24.318	16.171	1.00	28.07
ATOM	7527	O	THR	1108	-26.141	-23.127	12.424	1.00	23.32
ATOM	7528	O	THR	1108	-26.374	-26.681	11.883	1.00	27.18
ATOM	7529	N	ASP	1109	-25.764	-24.115	11.820	1.00	21.31
ATOM	7530	CA	ASP	1109	-25.141	-24.346	10.461	1.00	21.07
ATOM	7531	CB	ASP	1109	-25.123	-23.116	9.919	1.00	22.12
ATOM	7532	CG	ASP	1109	-26.450	-22.845	9.904	1.00	27.19
ATOM	7533	CD1	A.P	1109	-27.591	-23.111	9.120	1.00	17.36
ATOM	7534	CD2	A.P	1109	-26.377	-21.845	10.184	1.00	24.74
ATOM	7535	O	A.P	1109	-23.863	-23.422	10.333	1.00	17.07
ATOM	7536	O	A.P	1109	-23.811	-23.845	9.153	1.00	21.03
ATOM	7537	N	GLY	1110	-22.161	-25.116	11.498	1.00	21.29
ATOM	7538	CA	GLY	1110	-21.556	-26.110	11.341	1.00	17.80
ATOM	7539	C	GLY	1110	-21.532	-25.815	12.920	1.00	17.48
ATOM	7540	O	GLY	1110	-22.321	-26.441	13.856	1.00	18.62
ATOM	7541	N	GLN	1111	-20.360	-27.119	13.346	1.00	18.75
ATOM	7542	CA	GLN	1111	-19.920	-27.315	14.315	1.00	17.97
ATOM	7543	CB	GLN	1111	-20.330	-29.113	14.400	1.00	23.40
ATOM	7544	CG	GLN	1111	-21.434	-29.812	14.149	1.00	21.62
ATOM	7545	CD	GLN	1111	-22.353	-29.446	15.781	1.00	22.47
ATOM	7546	OE1	GLN	1111	-21.950	-29.843	16.148	1.00	21.39
ATOM	7547	NE2	GLN	1111	-23.607	-29.116	14.446	1.00	23.39
ATOM	7548	C	GLN	1111	-18.462	-27.314	14.196	1.00	17.61
ATOM	7549	O	GLN	1111	-17.897	-27.022	13.679	1.00	18.60
ATOM	7550	N	ILE	1112	-18.169	-27.119	13.371	1.00	17.79
ATOM	7551	CA	ILE	1112	-16.316	-27.111	16.076	1.00	17.54
ATOM	7552	CB	ILE	1112	-16.414	-25.013	16.631	1.00	17.72
ATOM	7553	CG2	ILE	1112	-17.151	-25.146	17.786	1.00	17.50
ATOM	7554	CG1	ILE	1112	-14.945	-25.110	16.671	1.00	18.93
ATOM	7555	CD1	ILE	1112	-14.545	-23.116	16.715	1.00	24.59
ATOM	7556	C	ILE	1112	-16.417	-27.131	17.540	1.00	21.11
ATOM	7557	O	ILE	1112	-17.319	-28.114	18.321	1.00	17.41
ATOM	7558	N	LEU	1113	-15.118	-28.118	17.120	1.00	17.15
ATOM	7559	CA	LEU	1113	-14.716	-29.114	18.880	1.00	17.99
ATOM	7560	CB	LEU	1113	-15.110	-30.115	18.110	1.00	21.14
ATOM	7561	CG	LEU	1113	-15.417	-31.114	19.580	1.00	17.12
ATOM	7562	CD1	LEU	1113	-16.718	-30.119	20.111	1.00	21.13
ATOM	7563	CD2	LEU	1113	-15.411	-32.114	18.888	1.00	17.13
ATOM	7564	O	LEU	1113	-13.212	-28.117	18.110	1.00	17.16
ATOM	7565	O	LEU	1113	-12.514	-28.116	17.113	1.00	17.161
ATOM	7566	N	VAL	1114	-12.687	-33.110	20.115	1.00	17.116
ATOM	7567	CA	VAL	1114	-11.246	-34.114	20.114	1.00	17.117
ATOM	7568	CB	VAL	1114	-10.908	-32.116	21.116	1.00	17.114
ATOM	7569	CG1	VAL	1114	-9.414	-32.114	22.117	1.00	17.117
ATOM	7570	CG2	VAL	1114	-11.702	-37.110	23.110	1.00	17.113
ATOM	7571	O	VAL	1114	-10.628	-30.114	19.111	1.00	18.113
ATOM	7572	O	VAL	1114	-11.017	-31.119	20.110	1.00	18.110
ATOM	7573	N	PHE	1115	-11.116	-30.117	18.113	1.00	17.115
ATOM	7574	CA	PHE	1115	-11.111	-31.117	19.111	1.00	18.111

ATM	7575	CF	MET	1115	-7.900	-30.840	17.390	1.00	14.14
ATM	7576	CG	MET	1115	-6.823	-33.615	18.095	1.00	15.65
ATM	7577	SI	MET	1115	-5.241	-33.356	17.297	1.00	13.15
ATM	7578	CF	MET	1115	-4.721	-31.861	16.197	1.00	11.23
ATM	7579	C	MET	1115	-8.492	-33.315	19.267	1.00	13.25
ATM	7580	O	MET	1115	-8.533	-33.310	19.019	1.00	16.35
ATM	7581	N	HIS	1116	-7.969	-33.366	20.421	1.00	12.84
ATM	7582	CA	HIS	1116	-7.414	-33.368	21.377	1.00	14.12
ATM	7583	CE	HIS	1116	-6.724	-33.317	21.341	1.00	13.42
ATM	7584	CG	HIS	1116	-5.516	-31.356	22.084	1.00	14.34
ATM	7585	CI2	HIS	1116	-5.403	-30.111	21.494	1.00	12.56
ATM	7586	NI1	HIS	1116	-4.237	-31.339	22.165	1.00	14.51
ATM	7587	CE1	HIS	1116	-3.384	-30.371	21.646	1.00	11.60
ATM	7588	NE2	HIS	1116	-4.267	-29.419	21.230	1.00	10.44
ATM	7589	C	HIS	1116	-8.436	-33.364	21.420	1.00	14.04
ATM	7590	O	HIS	1116	-8.168	-33.339	22.232	1.00	16.57
ATM	7591	N	ASP	1117	-9.717	-33.318	21.941	1.00	12.82
ATM	7592	CA	ASP	1117	-10.794	-34.176	21.536	1.00	10.37
ATM	7593	CB	ASP	1117	-12.014	-33.319	21.384	1.00	10.67
ATM	7594	CG	ASP	1117	-11.141	-32.464	24.174	1.00	13.82
ATM	7595	GD1	ASP	1117	-10.503	-32.372	24.947	1.00	13.40
ATM	7596	GD2	ASP	1117	-12.486	-31.330	24.364	1.00	16.11
ATM	7597	C	ASP	1117	-11.256	-33.108	21.324	1.00	11.35
ATM	7598	O	ASP	1117	-11.438	-36.306	21.633	1.00	13.51
ATM	7599	N	ALA	1118	-11.443	-34.333	20.231	1.00	14.76
ATM	7600	CA	ALA	1118	-11.927	-35.367	19.003	1.00	20.40
ATM	7601	CB	ALA	1118	-12.291	-34.376	19.865	1.00	21.95
ATM	7602	C	ALA	1118	-10.983	-36.313	19.335	1.00	20.38
ATM	7603	O	ALA	1118	-11.439	-37.315	19.813	1.00	23.45
ATM	7604	N	PHE	1119	-9.693	-36.318	19.846	1.00	20.93
ATM	7605	CA	PHE	1119	-8.733	-37.119	19.540	1.00	21.56
ATM	7606	CB	PHE	1119	-7.670	-36.470	19.531	1.00	23.16
ATM	7607	CG	PHE	1119	-8.223	-35.314	19.375	1.00	30.71
ATM	7608	CD1	PHE	1119	-9.077	-36.337	19.424	1.00	31.69
ATM	7609	CD2	PHE	1119	-7.923	-34.371	19.193	1.00	18.44
ATM	7610	CE1	PHE	1119	-9.623	-35.333	19.420	1.00	40.51
ATM	7611	CE2	PHE	1119	-8.446	-33.360	19.172	1.00	33.76
ATM	7612	CE3	PHE	1119	-9.314	-34.337	19.256	1.00	41.33
ATM	7613	C	PHE	1119	-8.056	-36.370	19.339	1.00	26.58
ATM	7614	O	PHE	1119	-6.911	-36.360	19.212	1.00	30.89
ATM	7615	N	GLY	1120	-6.817	-38.318	20.474	1.00	21.48
ATM	7616	CA	GLY	1120	-6.317	-39.336	21.505	1.00	24.13
ATM	7617	C	GLY	1120	-7.013	-38.331	22.160	1.00	23.63
ATM	7618	O	GLY	1120	-6.233	-35.758	22.511	1.00	22.16
ATM	7619	N	ILE	1121	-6.680	-37.316	22.252	1.00	20.46
ATM	7620	CA	ILE	1121	-5.441	-37.343	22.900	1.00	19.01
ATM	7621	CB	ILE	1121	-4.336	-37.330	22.235	1.00	16.73
ATM	7622	CD2	ILE	1121	-3.614	-35.335	22.995	1.00	16.32
ATM	7623	CD1	ILE	1121	-4.456	-36.330	20.717	1.00	15.62
ATM	7624	C	ILE	1121	-4.233	-34.360	19.931	1.00	14.03
ATM	7625	O	ILE	1121	-5.753	-36.331	21.359	1.00	13.57
ATM	7626	N	THR	1122	-5.103	-37.331	23.265	1.00	17.67
ATM	7627	CA	THR	1122	-6.771	-36.301	21.511	1.00	20.23
ATM	7628	CB	THR	1122	-7.143	-35.371	23.938	1.00	23.61
ATM	7629	CD	THR	1122	-8.387	-34.373	23.939	1.00	24.49
ATM	7630	CG1	THR	1122	-3.425	-35.373	23.135	1.00	23.23
ATM	7631	CG2	THR	1122	-3.053	-33.309	23.432	1.00	18.95
ATM	7632	C	THR	1122	-7.443	-36.340	26.711	1.00	26.71
ATM	7633	O	THR	1122	-3.052	-37.372	26.228	1.00	26.64
ATM	7634	N	GLY	1123	-7.092	-36.362	23.015	1.00	30.43
ATM	7635	CA	GLY	1123	-7.207	-33.113	23.870	1.00	17.37
ATM	7636	C	GLY	1123	-8.332	-36.059	23.434	1.00	30.65
ATM	7637	O	GLY	1123	-8.235	-37.847	23.344	1.00	41.14
ATM	7638	N	GLY	1124	-9.441	-38.996	23.111	1.00	40.46
ATM	7639	CA	GLY	1124	-10.569	-39.852	23.375	1.00	18.37
ATM	7640	C	GLY	1124	-11.873	-39.296	23.347	1.00	37.18
ATM	7641	O	GLY	1124	-12.953	-39.759	23.113	1.00	38.33
ATM	7642	N	HIS	1125	-11.763	-38.026	19.931	1.00	36.46
ATM	7643	CA	HIS	1125	-12.934	-37.259	19.931	1.00	35.37
ATM	7644	C	HIS	1125	-12.353	-36.723	19.931	1.00	37.37
ATM	7645	CD	HIS	1125	-12.325	-37.771	19.931	1.00	39.81
ATM	7646	CE	HIS	1125	-11.211	-37.357	19.931	1.00	40.43
ATM	7647	NI	HIS	1125	-13.207	-38.769	19.931	1.00	40.19
ATM	7648	CE1	HIS	1125	-12.651	-39.541	19.931	1.00	40.49
ATM	7649	NE2	HIS	1125	-11.440	-39.385	19.931	1.00	41.75
ATM	7650	C	HIS	1125	-13.207	-39.311	19.931	1.00	34.17
ATM	7651	O	HIS	1125	-13.417	-39.311	19.931	1.00	34.17

ATCM	7652	N	ILE	1126	-13.466	-35.466	28.178	1.00	31.25
ATCM	7653	CA	ILE	1126	-13.835	-35.435	27.215	1.00	28.48
ATCM	7654	CB	ILE	1126	-13.804	-35.963	25.767	1.00	16.91
ATCM	7655	CG2	ILE	1126	-12.394	-36.360	25.384	1.00	16.96
ATCM	7656	CG1	ILE	1126	-14.763	-37.134	25.614	1.00	15.19
ATCM	7657	CD1	ILE	1126	-14.926	-37.612	24.194	1.00	12.08
ATCM	7658	C	ILE	1126	-15.249	-34.961	27.540	1.00	18.29
ATCM	7659	C	ILE	1126	-16.014	-35.722	25.122	1.00	17.48
ATCM	7660	C	PRO	1127	-15.586	-33.719	27.168	1.00	17.92
ATCM	7661	CD	PRO	1127	-14.828	-32.750	26.350	1.00	16.06
ATCM	7662	CA	PRO	1127	-16.936	-33.232	25.470	1.00	17.27
ATCM	7663	CB	PRO	1127	-16.946	-31.831	26.853	1.00	17.40
ATCM	7664	CG	PRO	1127	-15.944	-31.927	25.744	1.00	19.08
ATCM	7665	C	PRO	1127	-18.045	-34.126	26.025	1.00	17.42
ATCM	7666	C	PRO	1127	-17.830	-34.877	25.962	1.00	15.23
ATCM	7667	N	LYS	1128	-19.213	-34.021	27.153	1.00	16.67
ATCM	7668	CA	LYS	1128	-20.354	-34.845	27.145	1.00	19.40
ATCM	7669	CB	LYS	1128	-21.571	-34.639	28.133	1.00	12.06
ATCM	7670	CG	LYS	1128	-21.563	-35.336	29.336	1.00	17.86
ATCM	7671	CD	LYS	1128	-20.410	-34.384	30.254	1.00	11.77
ATCM	7672	CE	LYS	1128	-20.424	-35.613	31.336	1.00	12.52
ATCM	7673	CZ	LYS	1128	-19.513	-35.170	32.445	1.00	15.13
ATCM	7674	C	LYS	1128	-20.746	-34.674	25.641	1.00	13.13
ATCM	7675	O	LYS	1128	-21.116	-35.595	25.120	1.00	18.71
ATCM	7676	N	PHE	1129	-20.449	-33.452	25.019	1.00	15.91
ATCM	7677	CA	PHE	1129	-20.802	-32.093	23.834	1.00	14.94
ATCM	7678	CB	PHE	1129	-21.120	-31.865	23.761	1.00	14.78
ATCM	7679	CG	PHE	1129	-20.112	-30.117	24.163	1.00	15.53
ATCM	7680	CD1	PHE	1129	-18.967	-30.861	23.838	1.00	15.50
ATCM	7681	CD2	PHE	1129	-20.214	-31.193	25.638	1.00	16.10
ATCM	7682	CE1	PHE	1129	-17.935	-29.873	23.876	1.00	14.44
ATCM	7683	CE2	PHE	1129	-19.134	-29.872	25.669	1.00	13.35
ATCM	7684	CZ	PHE	1129	-18.053	-28.382	25.113	1.00	15.52
ATCM	7685	C	PHE	1129	-19.830	-33.444	22.809	1.00	14.51
ATCM	7686	O	PHE	1129	-20.017	-33.241	21.633	1.00	15.21
ATCM	7687	N	ALA	1130	-18.711	-33.975	22.145	1.00	12.79
ATCM	7688	CA	ALA	1130	-17.811	-34.332	22.400	1.00	12.40
ATCM	7689	CB	ALA	1130	-16.143	-33.942	21.947	1.00	12.61
ATCM	7690	C	ALA	1130	-17.141	-35.793	21.030	1.00	12.33
ATCM	7691	O	ALA	1130	-18.123	-36.627	20.871	1.00	13.47
ATCM	7692	N	LYS	1131	-16.114	-36.115	21.993	1.00	11.42
ATCM	7693	CA	LYS	1131	-16.959	-37.473	20.334	1.00	11.01
ATCM	7694	CB	LYS	1131	-17.617	-37.723	19.334	1.00	11.35
ATCM	7695	CG	LYS	1131	-17.613	-39.131	19.607	1.00	15.99
ATCM	7696	CD	LYS	1131	-18.663	-39.339	19.732	1.00	17.36
ATCM	7697	CE	LYS	1131	-18.531	-40.719	17.696	1.00	18.45
ATCM	7698	CZ	LYS	1131	-19.521	-41.800	16.135	1.00	13.79
ATCM	7699	NZ	LYS	1131	-19.172	-37.770	21.089	1.00	10.50
ATCM	7700	C	LYS	1131	-14.615	-36.945	19.486	1.00	19.85
ATCM	7701	O	LYS	1131	-14.789	-38.945	16.495	1.00	18.18
ATCM	7702	N	ASN	1132	-13.453	-34.370	20.100	1.00	19.09
ATCM	7703	CA	ASN	1132	-12.463	-34.286	19.125	1.00	16.83
ATCM	7704	CB	ASN	1132	-11.540	-34.664	18.785	1.00	18.02
ATCM	7705	CG	ASN	1132	-11.619	-40.634	19.412	1.00	17.99
ATCM	7706	OD1	ASN	1132	-13.672	-41.537	17.836	1.00	17.64
ATCM	7707	ND2	ASN	1132	-13.163	-40.141	17.736	1.00	18.64
ATCM	7708	C	ASN	1132	-13.581	-41.340	17.981	1.00	19.00
ATCM	7709	N	PHE	1133	-13.295	-39.460	17.476	1.00	18.32
ATCM	7710	CA	PHE	1133	-13.156	-40.379	17.161	1.00	19.77
ATCM	7711	CB	PHE	1133	-13.465	-39.109	17.768	1.00	19.12
ATCM	7712	CG	PHE	1133	-14.324	-38.142	17.597	1.00	19.88
ATCM	7713	CD	PHE	1133	-14.835	-37.142	16.127	1.00	10.42
ATCM	7714	CE	PHE	1133	-15.838	-36.132	14.331	1.00	11.73
ATCM	7715	CZ	PHE	1133	-16.144	-36.453	14.309	1.00	12.12
ATCM	7716	C	PHE	1133	-17.066	-37.278	14.692	1.00	12.46
ATCM	7717	O	PHE	1133	-17.235	-36.679	15.431	1.00	11.23
ATCM	7718	N	PHE	1133	-17.308	-40.344	16.020	1.00	16.33
ATCM	7719	CA	PHE	1133	-17.314	-41.837	15.144	1.00	19.05
ATCM	7720	CB	PHE	1133	-17.094	-40.649	16.949	1.00	17.75
ATCM	7721	C	LEU	1134	-9.020	-41.686	16.488	1.00	18.27
ATCM	7722	CA	LEU	1134	-8.691	-41.143	17.330	1.00	17.93
ATCM	7723	CB	LEU	1134	-7.365	-41.865	17.020	1.00	19.52
ATCM	7724	C	LEU	1134	-7.933	-41.987	15.620	1.00	18.41
ATCM	7725	N	LEU	1134	-7.271	-41.335	17.936	1.00	18.81
ATCM	7726	CA	LEU	1134	-10.170	-43.133	16.190	1.00	19.68
ATCM	7727	CB	LEU	1134	-8.860	-44.754	16.167	1.00	17.88
ATCM	7728	C	LEU	1134	-10.727	-43.637	16.151	1.00	21.36

ATOM	7710	CA	ALA	1135	-11.027	-44.173	16.637	1.00	27.76
ATOM	7711	CB	ALA	1135	-11.775	-44.113	17.334	1.00	26.50
ATOM	7711	C	ALA	1135	-11.867	-45.087	17.684	1.00	32.49
ATOM	7712	O	ALA	1135	-11.783	-44.500	17.483	1.00	33.61
ATOM	7713	N	GLU	1136	-12.685	-44.558	16.954	1.00	36.50
ATOM	7714	CA	GLU	1136	-13.576	-45.210	15.963	1.00	40.36
ATOM	7714	CB	GLU	1136	-14.156	-44.158	15.403	1.00	43.73
ATOM	7714	CS	GLU	1136	-15.434	-43.403	16.441	1.00	48.10
ATOM	7717	CL	GLU	1136	-16.536	-44.150	17.054	1.00	56.51
ATOM	7738	OE1	GLU	1136	-16.122	-45.157	17.846	1.00	51.66
ATOM	7739	OE2	GLU	1136	-17.719	-44.307	16.735	1.00	51.42
ATOM	7740	C	GLU	1136	-12.465	-45.331	14.800	1.00	41.01
ATOM	7741	O	GLU	1136	-12.541	-47.016	14.544	1.00	42.71
ATOM	7742	N	THR	1137	-12.031	-44.377	14.195	1.00	39.55
ATOM	7743	CA	THR	1137	-11.173	-45.108	13.037	1.00	38.43
ATOM	7744	CB	THR	1137	-10.841	-44.118	13.124	1.00	39.64
ATOM	7745	CG1	THR	1137	-9.779	-44.560	11.313	1.00	41.87
ATOM	7745	CG2	THR	1137	-10.545	-42.837	12.953	1.00	37.36
ATOM	7747	C	THR	1137	-9.543	-46.121	13.474	1.00	37.82
ATOM	7748	O	THR	1137	-9.965	-47.223	13.641	1.00	40.14
ATOM	7749	N	GLY	1138	-8.932	-45.133	13.639	1.00	33.87
ATOM	7750	CA	GLY	1138	-7.659	-45.005	14.034	1.00	31.20
ATOM	7751	C	GLY	1138	-6.522	-45.186	13.574	1.00	19.12
ATOM	7752	C	GLY	1138	-5.355	-45.157	13.951	1.00	27.41
ATOM	7753	N	ASP	1139	-6.865	-44.119	12.711	1.00	25.34
ATOM	7754	CA	ASP	1139	-5.833	-43.134	12.105	1.00	23.78
ATOM	7755	CB	ASP	1139	-5.746	-43.814	10.635	1.00	27.59
ATOM	7756	CG	ASP	1139	-5.008	-42.535	9.841	1.00	30.32
ATOM	7757	CD1	ASP	1139	-5.661	-41.150	9.048	1.00	26.93
ATOM	7758	CD2	ASP	1139	-3.776	-42.118	10.021	1.00	31.99
ATOM	7759	C	ASP	1139	-6.308	-41.151	12.260	1.00	19.81
ATOM	7760	C	ASP	1139	-7.502	-41.156	12.137	1.00	17.54
ATOM	7761	N	LEU	1140	-5.305	-46.832	12.548	1.00	18.09
ATOM	7762	CA	LEU	1140	-5.937	-39.445	12.737	1.00	16.16
ATOM	7763	CB	LEU	1140	-4.727	-38.130	13.260	1.00	15.40
ATOM	7764	CG2	LEU	1140	-5.116	-35.074	13.303	1.00	14.63
ATOM	7765	CG1	LEU	1140	-4.378	-38.187	14.873	1.00	14.86
ATOM	7766	CD1	LEU	1140	-5.217	-39.102	15.176	1.00	14.86
ATOM	7767	C	LEU	1140	-6.516	-36.192	11.507	1.00	15.51
ATOM	7768	C	LEU	1140	-7.594	-33.009	11.627	1.00	15.94
ATOM	7769	N	ARG	1141	-6.006	-39.003	10.325	1.00	15.97
ATOM	7770	CA	ARG	1141	-6.566	-33.611	9.129	1.00	17.73
ATOM	7771	CB	ARG	1141	-5.678	-33.008	7.416	1.00	18.46
ATOM	7772	CG	ARG	1141	-4.473	-37.042	7.944	1.00	20.14
ATOM	7773	CD	ARG	1141	-5.435	-37.903	6.316	1.00	19.99
ATOM	7774	NE	ARG	1141	-2.159	-36.984	6.375	1.00	21.30
ATOM	7775	CZ	ARG	1141	-1.465	-36.949	7.343	1.00	21.89
ATOM	7776	NH1	ARG	1141	-1.511	-37.335	8.351	1.00	20.45
ATOM	7777	NH2	ARG	1141	-0.407	-36.942	7.804	1.00	23.31
ATOM	7778	C	ARG	1141	-7.970	-33.016	8.385	1.00	17.66
ATOM	7779	O	ARG	1141	-6.910	-33.110	8.484	1.00	16.58
ATOM	7780	N	ALA	1142	-8.006	-40.125	9.146	1.00	17.72
ATOM	7781	CA	ALA	1142	-9.371	-41.034	6.963	1.00	17.45
ATOM	7782	CB	ALA	1142	-9.238	-42.525	9.143	1.00	19.12
ATOM	7783	C	ALA	1142	-10.335	-40.471	9.461	1.00	18.35
ATOM	7784	O	ALA	1142	-11.554	-40.117	9.693	1.00	18.41
ATOM	7785	N	ALA	1142	-9.955	-40.132	11.158	1.00	17.41
ATOM	7786	CA	ALA	1143	-10.854	-39.000	13.157	1.00	18.14
ATOM	7787	CB	ALA	1143	-10.067	-39.468	13.610	1.00	17.81
ATOM	7788	C	ALA	1143	-11.310	-38.240	11.715	1.00	16.96
ATOM	7789	O	ALA	1143	-12.525	-37.821	11.900	1.00	16.67
ATOM	7790	N	VAL	1144	-10.464	-37.449	11.111	1.00	16.10
ATOM	7791	CA	VAL	1144	-10.836	-36.135	10.603	1.00	17.64
ATOM	7792	CB	VAL	1144	-9.694	-35.412	9.989	1.00	17.57
ATOM	7793	CG1	VAL	1144	-10.080	-34.114	9.326	1.00	15.63
ATOM	7794	CG2	VAL	1144	-8.561	-35.115	11.078	1.00	15.19
ATOM	7795	C	VAL	1144	-11.900	-36.290	9.528	1.00	18.37
ATOM	7796	O	VAL	1144	-12.928	-35.615	9.560	1.00	17.83
ATOM	7797	N	ARG	1145	-11.656	-37.151	8.575	1.00	19.43
ATOM	7798	CA	ARG	1145	-12.619	-37.438	7.507	1.00	21.52
ATOM	7799	CB	ARG	1145	-12.079	-38.435	6.514	1.00	22.86
ATOM	7800	CG	ARG	1145	-10.907	-37.920	5.690	1.00	23.87
ATOM	7801	CD	ARG	1145	-10.570	-38.831	4.565	1.00	26.94
ATOM	7802	NE	ARG	1145	-10.050	-40.162	5.055	1.00	27.72
ATOM	7803	CZ	ARG	1145	-8.771	-40.448	5.207	1.00	26.31
ATOM	7804	NH1	ARG	1145	-7.846	-39.544	4.909	1.00	25.59
ATOM	7805	NH2	ARG	1145	-8.407	-41.646	5.639	1.00	27.26

ATOM	7007	C	ARG	1145	-14.965	-37.865	8.050	1.00	22.32
ATOM	7008	C	ARG	1145	-15.010	-37.479	7.931	1.00	22.84
ATOM	7009	N	GLN	1146	-13.941	-38.685	9.098	1.00	21.32
ATOM	7010	CA	GLN	1146	-15.171	-39.190	9.701	1.00	22.69
ATOM	7011	CB	GLN	1146	-14.855	-39.313	10.691	1.00	24.27
ATOM	7012	CG	GLN	1146	-16.031	-39.093	11.161	1.00	29.43
ATOM	7013	CD	GLN	1146	-15.732	-38.213	12.132	1.00	34.61
ATOM	7014	OE1	GLN	1146	-14.392	-38.067	11.739	1.00	36.83
ATOM	7014	NE2	GLN	1146	-16.382	-42.216	13.253	1.00	35.93
ATOM	7015	C	GLN	1146	-15.918	-38.077	10.423	1.00	22.55
ATOM	7016	O	GLN	1146	-17.152	-38.043	10.448	1.00	19.63
ATOM	7017	N	TYR	1147	-15.167	-39.165	11.027	1.00	20.33
ATOM	7018	CA	TYR	1147	-15.774	-38.051	11.739	1.00	22.67
ATOM	7019	CB	TYR	1147	-14.690	-38.256	12.478	1.00	20.90
ATOM	7020	CG	TYR	1147	-15.135	-38.930	12.979	1.00	21.86
ATOM	7021	CH	TYR	1147	-16.313	-38.755	13.721	1.00	20.22
ATOM	7021	OE1	TYR	1147	-16.713	-38.511	14.186	1.00	21.50
ATOM	7023	CH1	TYR	1147	-14.374	-38.759	12.719	1.00	20.91
ATOM	7024	CH2	TYR	1147	-14.769	-38.509	13.180	1.00	20.76
ATOM	7025	CE	TYR	1147	-15.333	-38.309	13.919	1.00	22.56
ATOM	7026	CH	TYR	1147	-16.345	-38.132	14.358	1.00	21.72
ATOM	7027	C	TYR	1147	-16.509	-38.181	10.737	1.00	22.11
ATOM	7028	O	TYR	1147	-17.643	-34.792	10.963	1.00	23.56
ATOM	7029	N	MET	1148	-15.355	-40.881	9.611	1.00	22.47
ATOM	7030	CA	MET	1148	-16.441	-40.091	8.586	1.00	23.31
ATOM	7031	CB	MET	1148	-15.427	-39.805	7.453	1.00	24.14
ATOM	7032	CG	MET	1148	-14.192	-39.071	7.873	1.00	25.93
ATOM	7033	SD	MET	1148	-12.910	-38.130	6.619	1.00	24.97
ATOM	7034	CE	MET	1148	-13.545	-38.044	9.386	1.00	23.81
ATOM	7035	C	MET	1148	-17.091	-38.704	9.012	1.00	25.12
ATOM	7036	O	MET	1148	-18.743	-38.081	7.868	1.00	21.49
ATOM	7037	N	ALA	1149	-17.593	-38.992	7.700	1.00	21.17
ATOM	7038	CA	ALA	1149	-18.718	-38.747	7.133	1.00	21.28
ATOM	7039	CB	ALA	1149	-18.234	-38.112	6.350	1.00	22.46
ATOM	7040	C	ALA	1149	-19.914	-38.838	5.079	1.00	21.06
ATOM	7041	O	ALA	1149	-21.053	-38.613	3.669	1.00	21.40
ATOM	7042	N	GLU	1150	-19.667	-38.135	8.346	1.00	23.16
ATOM	7043	CA	GLU	1150	-20.709	-38.235	10.319	1.00	26.28
ATOM	7044	CB	GLU	1150	-20.713	-38.818	11.634	1.00	27.57
ATOM	7045	CG	GLU	1150	-20.356	-38.347	11.608	1.00	28.54
ATOM	7046	CD	GLU	1150	-19.611	-38.919	12.890	1.00	28.17
ATOM	7047	OE1	GLU	1150	-20.077	-38.508	13.984	1.00	26.42
ATOM	7048	OE2	GLU	1150	-18.773	-38.891	12.796	1.00	33.92
ATOM	7049	C	GLU	1150	-21.411	-38.901	10.581	1.00	26.66
ATOM	7050	O	GLU	1150	-22.397	-38.819	10.949	1.00	27.47
ATOM	7051	N	VAL	1151	-20.685	-34.805	10.406	1.00	27.27
ATOM	7052	CA	VAL	1151	-21.763	-35.486	10.617	1.00	27.27
ATOM	7053	CB	VAL	1151	-20.779	-35.384	10.668	1.00	27.11
ATOM	7054	CG1	VAL	1151	-20.815	-34.005	10.609	1.00	23.63
ATOM	7055	CG2	VAL	1151	-19.372	-35.512	11.949	1.00	23.64
ATOM	7056	C	VAL	1151	-22.742	-35.153	9.495	1.00	28.77
ATOM	7057	O	VAL	1151	-23.584	-35.777	9.749	1.00	28.71
ATOM	7058	N	GLU	1152	-21.793	-35.304	8.256	1.00	30.69
ATOM	7059	CA	GLU	1152	-22.677	-35.398	7.112	1.00	33.93
ATOM	7060	CB	GLU	1152	-21.806	-35.117	5.813	1.00	36.31
ATOM	7061	CG	GLU	1152	-22.647	-35.773	4.567	1.00	38.15
ATOM	7062	CD	GLU	1152	-21.775	-35.541	3.343	1.00	39.92
ATOM	7063	OE1	GLU	1152	-22.317	-35.401	2.346	1.00	43.20
ATOM	7064	OE2	GLU	1152	-20.533	-35.185	3.485	1.00	41.00
ATOM	7065	C	GLU	1152	-23.867	-35.890	7.951	1.00	34.76
ATOM	7066	O	GLU	1152	-24.942	-35.456	6.640	1.00	15.70
ATOM	7067	N	LEU	1153	-23.769	-35.147	7.468	1.00	14.67
ATOM	7068	CA	LEU	1153	-24.814	-35.102	7.456	1.00	34.62
ATOM	7069	CB	LEU	1153	-24.284	-34.534	7.559	1.00	25.72
ATOM	7070	CG	LEU	1153	-23.645	-34.926	6.357	1.00	39.86
ATOM	7071	C	LEU	1153	-25.787	-35.853	8.596	1.00	31.95
ATOM	7072	O	LEU	1153	-26.974	-35.157	8.487	1.00	21.54
ATOM	7073	N	GLY	1154	-25.280	-35.302	9.692	1.00	30.07
ATOM	7074	CA	GLY	1154	-26.130	-35.039	10.835	1.00	28.64
ATOM	7075	C	GLY	1154	-25.952	-36.093	11.912	1.00	27.31
ATOM	7076	O	GLY	1154	-26.491	-35.963	13.006	1.00	27.96
ATOM	7077	N	VAL	1155	-25.197	-34.143	11.599	1.00	27.21
ATOM	7078	CA	VAL	1155	-24.944	-34.203	12.556	1.00	27.30
ATOM	7079	CB	VAL	1155	-23.969	-34.252	11.984	1.00	27.92
ATOM	7080	CG1	VAL	1155	-23.728	-40.357	13.005	1.00	30.23
ATOM	7081	CG2	VAL	1155	-24.528	-34.828	10.692	1.00	31.86
ATOM	7082	C	VAL	1155	-24.333	-37.614	15.823	1.00	26.47

ATOM	7884	VAL	1156	-14.616	-36.665	14.735	1.00	26.28	
ATOM	7884	N	TYR	1156	-12.445	-36.606	14.636	1.00	26.79
ATOM	7885	CA	TYR	1156	-2.1828	-35.821	14.746	1.00	26.80
ATOM	7886	CB	TYR	1156	-2.1307	-36.124	14.709	1.00	24.71
ATOM	7887	CG	TYR	1156	-2.1665	-35.437	14.867	1.00	24.07
ATOM	7888	CD	TYR	1156	-2.1649	-35.976	14.156	1.00	23.28
ATOM	7889	CE1	TYR	1156	-2.073	-35.306	14.242	1.00	23.96
ATOM	7890	CE2	TYR	1156	-1.964	-34.213	14.690	1.00	24.41
ATOM	7891	CEE	TYR	1156	-1.391	-34.533	14.768	1.00	24.59
ATOM	7892	CZ	TYR	1156	-1.455	-34.083	14.041	1.00	24.21
ATOM	7893	OH	TYR	1156	-1.329	-33.395	14.112	1.00	23.17
ATOM	7894	C	TYR	1156	-2.116	-34.404	14.686	1.00	26.37
ATOM	7895	O	TYR	1156	-2.1996	-34.799	14.642	1.00	26.36
ATOM	7896	N	PRO	1157	-2.1471	-34.806	14.844	1.00	27.27
ATOM	7897	CA	PRO	1157	-2.1555	-34.165	14.017	1.00	26.87
ATOM	7898	CB	PRO	1157	-2.1609	-34.109	14.123	1.00	26.77
ATOM	7899	CG	PRO	1157	-2.1499	-34.165	14.198	1.00	26.69
ATOM	7900	CD	PRO	1157	-2.1117	-34.134	14.316	1.00	26.71
ATOM	7901	C	PRO	1157	-2.1881	-34.119	14.250	1.00	30.00
ATOM	7902	O	PRO	1157	-2.1924	-34.107	14.740	1.00	29.71
ATOM	7903	N	GLY	1158	-2.1786	-34.409	14.046	1.00	30.14
ATOM	7904	CA	GLY	1158	-2.1949	-34.197	14.278	1.00	31.69
ATOM	7905	C	GLY	1158	-2.1648	-34.843	14.540	1.00	31.83
ATOM	7906	O	GLY	1158	-2.1249	-34.101	20.234	1.00	31.49
ATOM	7907	N	GLY	1158	-2.1779	-34.101	14.844	1.00	33.46
ATOM	7908	CA	GLY	1158	-2.1534	-34.116	21.036	1.00	34.83
ATOM	7909	CB	GLY	1158	-2.1791	-34.073	21.122	1.00	36.68
ATOM	7910	CG	GLY	1158	-2.1833	-34.111	21.049	1.00	36.69
ATOM	7911	CD	GLY	1158	-2.1472	-34.141	21.503	1.00	39.50
ATOM	7912	CE1	GLY	1158	-2.1152	-34.107	21.269	1.00	41.14
ATOM	7913	CE2	GLY	1158	-2.1282	-34.198	21.300	1.00	39.13
ATOM	7914	C	GLY	1158	-2.1685	-34.403	21.285	1.00	35.20
ATOM	7915	O	GLY	1158	-2.1934	-34.802	21.325	1.00	38.65
ATOM	7916	N	GLY	1159	-2.1664	-34.156	21.167	1.00	38.14
ATOM	7917	CA	GLY	1159	-2.1764	-34.141	21.275	1.00	38.10
ATOM	7918	CB	GLY	1159	-2.1879	-34.148	21.951	1.00	37.43
ATOM	7919	CG	GLY	1159	-2.1657	-34.102	21.261	1.00	41.74
ATOM	7920	CD	GLY	1159	-2.1321	-34.138	21.289	1.00	42.69
ATOM	7921	CE1	GLY	1159	-2.1334	-34.140	20.051	1.00	40.87
ATOM	7922	CE2	GLY	1159	-2.1399	-34.163	20.368	1.00	40.18
ATOM	7923	C	GLY	1159	-2.1361	-34.151	20.581	1.00	33.10
ATOM	7924	O	GLY	1159	-2.1251	-34.163	24.653	1.00	31.07
ATOM	7925	N	HIS	1160	-2.1777	-34.102	21.637	1.00	32.51
ATOM	7926	CA	HIS	1160	-2.1939	-34.103	21.781	1.00	32.09
ATOM	7927	CB	HIS	1160	-2.1916	-34.107	21.568	1.00	31.01
ATOM	7928	CG	HIS	1160	-2.1357	-34.101	21.147	1.00	29.17
ATOM	7929	CD2	HIS	1160	-2.1311	-34.131	20.031	1.00	27.17
ATOM	7930	ND1	HIS	1160	-2.1401	-34.111	21.191	1.00	28.09
ATOM	7931	CE1	HIS	1160	-2.1921	-34.117	21.296	1.00	33.19
ATOM	7932	NE2	HIS	1160	-2.1661	-34.106	21.136	1.00	29.06
ATOM	7933	C	HIS	1160	-2.1757	-34.103	21.899	1.00	33.71
ATOM	7934	O	HIS	1160	-2.1317	-34.104	21.873	1.00	31.43
ATOM	7935	N	SER	1161	-2.1969	-34.111	21.013	1.00	34.69
ATOM	7936	CA	SER	1161	-2.1969	-34.101	21.107	1.00	31.71
ATOM	7937	CB	SER	1161	-2.1969	-34.107	21.088	1.00	31.13
ATOM	7938	CG	SER	1161	-2.1549	-34.141	21.609	1.00	31.56
ATOM	7939	C	SER	1161	-2.1581	-34.148	21.406	1.00	31.53
ATOM	7940	O	SER	1161	-2.1649	-34.130	21.303	1.00	31.53
ATOM	7941	N	PHE	1162	-2.1969	-34.106	24.749	1.00	38.51
ATOM	7942	CA	PHE	1162	-2.1583	-34.119	24.028	1.00	39.57
ATOM	7943	CB	PHE	1162	-2.1763	-34.100	24.692	1.00	40.97
ATOM	7944	CG	PHE	1162	-2.1323	-34.143	24.967	1.00	42.93
ATOM	7945	CD1	PHE	1162	-2.1363	-34.153	25.961	1.00	44.15
ATOM	7946	CD2	PHE	1162	-2.1926	-34.171	28.237	1.00	44.14
ATOM	7947	CE1	PHE	1162	-2.1929	-34.175	26.213	1.00	43.16
ATOM	7948	CE2	PHE	1162	-2.1593	-34.106	26.490	1.00	41.19
ATOM	7949	CZ	PHE	1162	-2.1645	-34.198	27.480	1.00	41.94
ATOM	7950	C	PHE	1162	-2.1917	-34.176	25.838	1.00	39.51
ATOM	7951	O	PHE	1162	-2.1449	-34.143	24.715	1.00	39.13
ATOM	7952	N	HIS	1164	-32.776	-34.162	26.944	1.00	40.33
ATOM	7953	CA	HIS	1164	-32.115	-34.136	26.912	1.00	40.45
ATOM	7954	CB	HIS	1164	-32.056	-34.131	26.812	1.00	39.13
ATOM	7955	CG	HIS	1164	-32.1963	-34.071	25.504	1.00	37.46
ATOM	7956	CD2	HIS	1164	-32.1563	-34.139	25.201	1.00	36.29
ATOM	7957	ND1	HIS	1164	-32.293	-34.176	24.305	1.00	36.11
ATOM	7958	CE1	HIS	1164	-32.100	-34.136	25.321	1.00	34.87
ATOM	7959	NE2	HIS	1164	-32.657	-34.168	23.837	1.00	34.05

ATOM	7961	HI	1164	-13.464	-19.336	38.144	1.00	41.45
ATOM	7961	HI	1164	-13.130	-18.261	37.988	1.00	42.79
ATOM	7962	MET	1165	-13.119	-19.749	29.264	1.00	42.44
ATOM	7963	CI	1165	-14.350	-24.323	22.600	1.00	37.46
ATOM	7963	CI	1165	-14.158	-23.614	21.664	1.00	39.76
ATOM	7963	CI	1165	-14.175	-24.144	20.719	1.00	36.86
ATOM	7963	CI	1165	-16.014	-23.142	21.763	1.00	37.77
ATOM	7963	CI	1165	-16.004	-22.744	23.112	1.00	39.26
ATOM	7963	CI	1165	-13.790	-22.469	23.959	1.00	34.45
ATOM	7969	O	1165	-14.627	-21.380	22.384	1.00	34.78
ATOM	7970	CO	1165	-12.093	-22.661	22.059	1.00	32.52
ATOM	7971	O	1165	-11.001	-23.120	21.736	1.00	31.95
ATOM	7971	O	1165	-11.138	-21.651	22.418	1.00	33.43
ATOM	7971	CO	1201	-13.373	-28.638	47.757	1.00	71.61
ATOM	7974	CG	1201	-16.030	-29.137	48.289	1.00	76.04
ATOM	7974	CG	1201	-15.111	-31.115	47.313	1.00	77.75
ATOM	7976	CB	1201	-17.136	-31.964	46.480	1.00	77.07
ATOM	7977	O	1201	-15.069	-29.110	45.210	1.00	71.84
ATOM	7978	O	1201	-13.038	-23.142	45.611	1.00	72.10
ATOM	7979	N	1201	-17.089	-23.514	46.163	1.00	73.80
ATOM	7980	CA	1201	-15.020	-23.111	46.319	1.00	73.03
ATOM	7981	N	1202	-15.126	-28.005	44.033	1.00	60.18
ATOM	7981	CA	1202	-14.789	-24.514	42.149	1.00	67.82
ATOM	7981	CB	1202	-15.623	-31.701	42.469	1.00	68.97
ATOM	7984	CS	1202	-15.423	-31.477	43.433	1.00	69.98
ATOM	7984	CD	1202	-14.031	-33.611	43.419	1.00	70.39
ATOM	7986	CE	1202	-13.981	-33.414	43.149	1.00	70.17
ATOM	7987	NZ	1202	-13.979	-33.606	40.806	1.00	70.61
ATOM	7988	C	1202	-14.600	-28.769	41.702	1.00	64.75
ATOM	7988	O	1202	-15.020	-24.860	40.617	1.00	65.11
ATOM	7989	N	1203	-13.470	-24.414	41.113	1.00	61.71
ATOM	7991	CD	1203	-13.477	-26.191	40.856	1.00	61.19
ATOM	7992	CA	1203	-13.457	-26.119	40.148	1.00	58.81
ATOM	7993	CB	1203	-12.707	-26.118	40.803	1.00	58.98
ATOM	7994	CG	1203	-12.701	-26.115	41.111	1.00	58.86
ATOM	7994	O	1203	-14.414	-26.118	44.013	1.00	58.17
ATOM	7996	O	1203	-15.041	-26.061	43.619	1.00	57.17
ATOM	7997	N	1204	-13.087	-21.177	43.019	1.00	58.18
ATOM	7998	CA	1204	-14.889	-21.111	43.833	1.00	48.81
ATOM	7998	CB	1204	-14.167	-24.111	42.110	1.00	48.19
ATOM	8001	CG1	1204	-13.701	-21.114	42.019	1.00	48.17
ATOM	8001	CG2	1204	-15.111	-21.111	40.019	1.00	45.19
ATOM	8002	C	1204	-15.140	-21.188	45.019	1.00	48.03
ATOM	8003	O	1204	-14.551	-21.164	44.449	1.00	47.49
ATOM	8004	N	1205	-16.111	-21.111	44.019	1.00	40.16
ATOM	8005	CA	1205	-17.000	-21.111	44.111	1.00	37.82
ATOM	8006	CB	1205	-17.011	-21.114	43.019	1.00	38.75
ATOM	8007	CG1	1205	-18.011	-21.111	43.019	1.00	38.06
ATOM	8008	CG2	1205	-16.889	-21.111	43.019	1.00	39.70
ATOM	8009	C	1205	-17.014	-21.111	43.019	1.00	38.47
ATOM	8010	O	1205	-18.011	-21.111	46.111	1.00	34.11
ATOM	8011	N	1206	-18.111	-21.114	44.019	1.00	31.47
ATOM	8012	CA	1206	-19.114	-21.111	43.019	1.00	34.01
ATOM	8013	CB	1206	-19.111	-21.111	44.107	1.00	34.19
ATOM	8014	CG1	1206	-20.011	-21.111	44.834	1.00	31.11
ATOM	8015	CG2	1206	-19.889	-21.111	43.108	1.00	31.11
ATOM	8016	CD	1206	-19.908	-18.010	43.019	1.00	30.11
ATOM	8016	C	1206	-20.411	-21.111	45.111	1.00	31.47
ATOM	8018	C	1207	-21.111	-21.111	46.111	1.00	31.11
ATOM	8019	N	1207	-20.911	-20.111	44.111	1.00	31.47
ATOM	8020	CA	1207	-22.111	-20.111	44.494	1.00	34.01
ATOM	8021	CB	1207	-22.111	-21.111	43.111	1.00	34.94
ATOM	8022	CG	1207	-22.011	-21.011	42.111	1.00	37.11
ATOM	8023	O	1207	-22.111	-21.111	45.111	1.00	33.11
ATOM	8024	O	1207	-23.111	-21.111	46.111	1.00	34.33
ATOM	8025	N	1208	-21.111	-21.121	46.111	1.00	32.96
ATOM	8026	CA	1208	-21.089	-21.111	47.433	1.00	32.87
ATOM	8027	CB	1208	-19.011	-21.111	47.651	1.00	34.16
ATOM	8028	CG	1208	-19.111	-24.111	48.111	1.00	35.32
ATOM	8029	CD	1208	-18.011	-21.111	48.489	1.00	34.07
ATOM	8030	CG2	1208	-20.111	-21.111	49.440	1.00	34.02
ATOM	8031	C	1208	-21.444	-21.111	48.687	1.00	31.67
ATOM	8032	O	1208	-22.111	-21.111	49.563	1.00	30.68
ATOM	8033	N	1209	-20.902	-20.111	48.728	1.00	29.45
ATOM	8034	CA	1209	-21.111	-19.111	49.834	1.00	28.92
ATOM	8035	CB	1209	-20.111	-18.753	49.772	1.00	25.98
ATOM	8036	CG	1209	-18.698	-19.111	49.742	1.00	25.45

ATOM	-037	CH1	LEU	1209	-14.959	-17.844	49.748	1.00	23.79
ATOM	-038	CH1	LEU	1209	-16.356	-19.975	50.847	1.00	23.47
ATOM	-039	N	LEU	1209	-22.595	-19.425	49.802	1.00	29.02
ATOM	-040	O	LEU	1209	-22.107	-19.198	50.844	1.00	29.22
ATOM	-041	N	GLN	1210	-21.126	-19.229	48.598	1.00	20.69
ATOM	-042	CA	GLN	1210	-24.497	-18.761	48.436	1.00	21.68
ATOM	-043	CB	GLN	1210	-24.777	-18.488	48.964	1.00	22.40
ATOM	-044	CG	GLN	1210	-26.137	-17.881	48.648	1.00	23.66
ATOM	-045	CD	GLN	1210	-26.331	-16.511	47.772	1.00	23.08
ATOM	-046	OE1	GLN	1210	-26.877	-16.513	48.116	1.00	23.29
ATOM	-047	NEE	GLN	1210	-26.977	-15.465	46.712	1.00	21.00
ATOM	-048	O	GLN	1210	-26.477	-14.871	48.594	1.00	21.22
ATOM	-049	O	GLN	1210	-26.477	-14.510	48.643	1.00	24.19
ATOM	-050	N	LYS	1211	-25.077	-22.093	43.710	1.00	28.85
ATOM	-051	CA	LYS	1211	-25.888	-22.112	49.147	1.00	27.71
ATOM	-052	CB	LYS	1211	-25.137	-22.112	43.710	1.00	29.42
ATOM	-053	CG	LYS	1211	-25.184	-23.766	49.413	1.00	41.21
ATOM	-054	CD	LYS	1211	-25.471	-23.064	43.712	1.00	41.16
ATOM	-055	CE	LYS	1211	-26.138	-23.314	47.477	1.00	47.30
ATOM	-056	NE	LYS	1211	-26.078	-22.629	46.849	1.00	49.02
ATOM	-057	O	LYS	1211	-25.187	-22.112	50.715	1.00	38.19
ATOM	-058	O	LYS	1211	-26.131	-22.558	51.474	1.00	37.87
ATOM	-059	N	TYR	1212	-24.677	-21.530	51.334	1.00	37.84
ATOM	-060	CA	TYR	1212	-24.477	-21.723	52.781	1.00	38.14
ATOM	-061	CB	TYR	1212	-23.671	-21.642	52.118	1.00	39.13
ATOM	-062	CG	TYR	1212	-22.161	-21.817	51.276	1.00	41.48
ATOM	-063	CD1	TYR	1212	-20.711	-21.623	51.870	1.00	42.11
ATOM	-064	CE1	TYR	1212	-19.874	-23.688	52.000	1.00	44.10
ATOM	-065	CD2	TYR	1212	-22.587	-24.115	51.897	1.00	42.62
ATOM	-066	CE2	TYR	1212	-21.713	-22.210	52.023	1.00	44.11
ATOM	-067	CZ	TYR	1212	-20.371	-24.987	52.027	1.00	44.87
ATOM	-068	OH	TYR	1212	-19.477	-24.148	51.512	1.00	47.13
ATOM	-069	O	TYR	1212	-25.138	-22.912	51.485	1.00	37.78
ATOM	-070	O	TYR	1212	-25.946	-21.211	51.844	1.00	29.97
ATOM	-071	N	LYS	1213	-25.814	-19.771	51.006	1.00	37.10
ATOM	-072	CA	LYS	1213	-26.377	-18.695	51.016	1.00	27.51
ATOM	-073	CB	LYS	1213	-26.276	-18.687	51.707	1.00	27.04
ATOM	-074	CG	LYS	1213	-27.167	-16.121	51.348	1.00	21.88
ATOM	-075	CD	LYS	1213	-26.777	-14.894	51.331	1.00	21.87
ATOM	-076	CE	LYS	1213	-27.177	-13.825	51.770	1.00	25.17
ATOM	-077	NZ	LYS	1213	-27.167	-13.467	51.404	1.00	24.11
ATOM	-078	O	LYS	1213	-27.167	-13.146	51.091	1.00	19.77
ATOM	-079	O	LYS	1213	-26.471	-13.980	51.041	1.00	29.00
ATOM	-080	N	GLN	1214	-26.331	-19.717	51.715	1.00	40.81
ATOM	-081	CA	GLN	1214	-26.677	-21.120	51.381	1.00	43.81
ATOM	-082	CB	GLN	1214	-30.107	-20.605	51.384	1.00	45.13
ATOM	-083	CG	GLN	1214	-30.117	-19.591	51.027	1.00	48.17
ATOM	-084	CD	GLN	1214	-30.137	-21.097	47.084	1.00	50.17
ATOM	-085	OE1	GLN	1214	-31.643	-20.687	47.761	1.00	51.13
ATOM	-086	NEE	GLN	1214	-29.787	-19.870	47.026	1.00	50.38
ATOM	-087	O	GLN	1214	-29.877	-21.703	51.711	1.00	43.17
ATOM	-088	O	GLN	1214	-31.013	-21.406	51.113	1.00	43.96
ATOM	-089	N	GLN	1215	-27.862	-22.126	51.083	1.00	45.06
ATOM	-090	CA	GLN	1215	-28.171	-23.127	51.673	1.00	45.72
ATOM	-091	CB	GLN	1215	-28.166	-23.747	51.341	1.00	46.96
ATOM	-092	CG	GLN	1215	-28.112	-23.134	52.815	1.00	46.76
ATOM	-093	CD	GLN	1215	-27.175	-23.078	52.112	1.00	51.77
ATOM	-094	OE1	GLN	1215	-27.873	-23.727	52.883	1.00	51.64
ATOM	-095	NEE	GLN	1215	-27.873	-22.000	51.091	1.00	51.49
ATOM	-096	O	GLN	1215	-28.587	-23.743	52.006	1.00	43.86
ATOM	-097	O	GLN	1215	-28.513	-24.741	52.009	1.00	43.81
ATOM	-098	N	LYS	1216	-26.470	-21.437	56.172	1.00	44.78
ATOM	-099	CA	LYS	1216	-26.069	-21.852	57.473	1.00	41.05
ATOM	-100	CB	LYS	1216	-29.212	-21.021	58.442	1.00	45.88
ATOM	-101	CG	LYS	1216	-30.471	-20.175	58.011	1.00	48.00
ATOM	-102	CD	LYS	1216	-30.234	-18.587	58.255	1.00	46.99
ATOM	-103	CE	LYS	1216	-31.475	-17.471	57.914	1.00	50.13
ATOM	-104	NZ	LYS	1216	-32.654	-18.266	58.740	1.00	51.79
ATOM	-105	O	LYS	1216	-26.839	-21.539	58.085	1.00	42.79
ATOM	-106	O	LYS	1216	-26.763	-21.741	59.296	1.00	42.94
ATOM	-107	N	LYS	1217	-25.896	-21.815	57.239	1.00	41.87
ATOM	-108	CA	LYS	1217	-24.613	-22.444	57.693	1.00	39.09
ATOM	-109	CB	LYS	1217	-24.290	-23.667	56.830	1.00	39.34
ATOM	-110	CG	LYS	1217	-25.929	-24.284	57.143	1.00	42.69
ATOM	-111	CD	LYS	1217	-22.622	-25.474	56.250	1.00	45.14
ATOM	-112	CE	LYS	1217	-23.542	-26.651	56.546	1.00	47.62
ATOM	-113	NZ	LYS	1217	-23.209	-27.828	55.706	1.00	43.86

ATOM	8114	C	ARG	1217	-23.437	-11.471	57.646	1.00	36.74
ATOM	8115	C	ARG	1217	-23.357	-11.156	56.573	1.00	37.26
ATOM	8116	N	ARG	1218	-23.058	-21.003	58.912	1.00	33.47
ATOM	8117	CA	ARG	1218	-11.821	-20.679	58.390	1.00	31.52
ATOM	8118	CB	ARG	1218	-21.750	-18.498	60.309	1.00	32.55
ATOM	8119	CG	ARG	1218	-22.894	-18.476	60.603	1.00	32.60
ATOM	8120	CD	ARG	1218	-23.918	-18.629	62.152	1.00	33.28
ATOM	8121	NE	ARG	1218	-23.699	-18.938	62.490	1.00	33.49
ATOM	8122	C2	ARG	1218	-24.649	-18.678	64.145	1.00	32.58
ATOM	8123	NH1	ARG	1218	-23.688	-17.537	64.16	1.00	33.26
ATOM	8124	NH2	ARG	1218	-24.767	-19.554	64.823	1.00	33.35
ATOM	8125	C	ARG	1218	-20.558	-20.777	58.476	1.00	30.31
ATOM	8126	C	ARG	1218	-20.323	-21.797	58.191	1.00	31.64
ATOM	8127	N	PHE	1219	-19.864	-20.112	57.843	1.00	23.09
ATOM	8128	CA	PHE	1219	-18.697	-20.656	57.034	1.00	23.32
ATOM	8129	CB	PHE	1219	-13.701	-20.816	55.713	1.00	23.44
ATOM	8130	CG	PHE	1219	-19.005	-19.537	54.794	1.00	23.44
ATOM	8131	CD1	PHE	1219	-17.975	-18.711	54.763	1.00	21.27
ATOM	8132	CD2	PHE	1219	-20.321	-19.151	54.806	1.00	21.38
ATOM	8133	CE1	PHE	1219	-13.753	-17.495	53.713	1.00	20.07
ATOM	8134	CE2	PHE	1219	-20.612	-17.913	53.963	1.00	20.42
ATOM	8135	CZ	PHE	1219	-16.575	-17.023	53.513	1.00	20.14
ATOM	8136	C	PHE	1219	-17.384	-19.911	55.411	1.00	23.16
ATOM	8137	O	PHE	1219	-17.476	-18.558	57.576	1.00	23.50
ATOM	8138	N	ALA	1220	-16.238	-20.474	57.541	1.00	23.05
ATOM	8139	CA	ALA	1220	-14.992	-18.391	57.908	1.00	24.62
ATOM	8140	CB	ALA	1220	-14.195	-20.631	58.867	1.00	27.36
ATOM	8141	C	ALA	1220	-14.134	-19.450	56.692	1.00	20.64
ATOM	8142	O	ALA	1220	-14.081	-20.187	55.723	1.00	20.16
ATOM	8143	N	THR	1221	-13.462	-18.319	56.773	1.00	23.36
ATOM	8144	CA	THR	1221	-12.593	-17.846	55.700	1.00	21.27
ATOM	8145	CB	THR	1221	-13.248	-16.697	54.950	1.00	21.71
ATOM	8146	CG1	THR	1221	-14.532	-17.084	54.456	1.00	20.31
ATOM	8147	CG2	THR	1221	-13.391	-16.229	53.780	1.00	20.49
ATOM	8148	C	THR	1221	-11.271	-17.393	56.329	1.00	23.19
ATOM	8149	O	THR	1221	-11.235	-17.035	57.115	1.00	18.18
ATOM	8150	N	ILE	1222	-10.162	-17.369	55.152	1.00	23.17
ATOM	8151	CA	ILE	1222	-8.912	-16.825	56.129	1.00	18.10
ATOM	8152	CB	ILE	1222	-8.209	-18.211	56.789	1.00	18.49
ATOM	8153	CG2	ILE	1222	-7.614	-19.183	55.696	1.00	20.26
ATOM	8154	CD1	ILE	1222	-7.164	-17.753	57.794	1.00	21.68
ATOM	8155	CD1	ILE	1222	-6.591	-18.886	58.621	1.00	23.30
ATOM	8156	C	ILE	1222	-7.932	-16.336	55.115	1.00	18.20
ATOM	8157	O	ILE	1222	-8.138	-16.510	53.910	1.00	17.49
ATOM	8158	N	THR	1223	-6.993	-15.321	55.602	1.00	18.62
ATOM	8159	CA	THR	1223	-6.949	-14.956	54.659	1.00	18.12
ATOM	8160	CB	THR	1223	-5.544	-13.596	55.210	1.00	19.60
ATOM	8161	CG1	THR	1223	-4.691	-13.781	56.131	1.00	20.12
ATOM	8162	CG2	THR	1223	-4.716	-12.759	55.621	1.00	20.60
ATOM	8163	C	THR	1223	-4.870	-15.930	54.523	1.00	18.45
ATOM	8164	O	THR	1223	-4.588	-16.719	55.393	1.00	18.75
ATOM	8165	N	ALA	1224	-4.196	-15.821	53.386	1.00	18.57
ATOM	8166	CA	ALA	1224	-3.943	-16.641	53.093	1.00	18.77
ATOM	8167	CB	ALA	1224	-3.494	-17.390	52.551	1.00	18.35
ATOM	8168	C	ALA	1224	-3.181	-15.993	52.099	1.00	18.47
ATOM	8169	O	ALA	1224	-3.794	-15.711	51.247	1.00	18.50
ATOM	8170	N	TYR	1225	-6.864	-16.641	52.201	1.00	13.15
ATOM	8171	CA	TYR	1225	-6.343	-15.741	51.313	1.00	14.62
ATOM	8172	CB	TYR	1225	-6.616	-14.091	52.031	1.00	16.12
ATOM	8173	CG	TYR	1225	-0.361	-13.144	52.918	1.00	16.49
ATOM	8174	CD1	TYR	1225	-0.328	-13.527	54.293	1.00	17.47
ATOM	8175	CE1	TYR	1225	-1.295	-12.961	55.113	1.00	19.34
ATOM	8176	CD2	TYR	1225	-1.350	-12.411	52.383	1.00	16.65
ATOM	8177	CE2	TYR	1225	-2.155	-11.723	53.197	1.00	17.77
ATOM	8178	CZ	TYR	1225	-2.170	-11.981	54.566	1.00	17.92
ATOM	8179	OH	TYR	1225	-3.673	-11.324	55.374	1.00	18.35
ATOM	8180	C	TYR	1225	-1.204	-16.118	50.817	1.00	15.11
ATOM	8181	O	TYR	1225	2.120	-15.650	50.183	1.00	16.68
ATOM	8182	N	ASP	1226	1.173	-17.452	51.071	1.00	14.75
ATOM	8183	CA	ASP	1226	2.251	-18.321	50.625	1.00	14.15
ATOM	8184	CB	ASP	1226	3.420	-18.761	51.615	1.00	12.62
ATOM	8185	CG	ASP	1226	3.067	-18.827	52.953	1.00	15.38
ATOM	8186	OD1	ASP	1226	2.953	-20.064	53.093	1.00	14.85
ATOM	8187	OD2	ASP	1226	2.912	-18.025	53.933	1.00	15.68
ATOM	8188	C	ASP	1226	1.771	-19.749	50.433	1.00	14.71
ATOM	8189	O	ASP	1226	0.672	-20.115	50.864	1.00	13.48
ATOM	8190	N	TYR	1227	2.604	-20.546	49.780	1.00	13.68

ATOM	2181	CA	TYR	1227	-1.611	-21.644	48.448	1.00	12.77
ATOM	2182	CB	TYR	1227	-3.454	-22.523	48.657	1.00	13.83
ATOM	2183	CG	TYR	1227	-3.407	-24.036	48.436	1.00	14.63
ATOM	2184	CD1	TYR	1227	-3.647	-24.611	47.487	1.00	15.74
ATOM	2185	CD2	TYR	1227	-2.594	-25.396	47.834	1.00	16.62
ATOM	2186	CD3	TYR	1227	-4.128	-24.864	48.351	1.00	17.93
ATOM	2187	CD4	TYR	1227	-4.087	-26.250	48.198	1.00	18.82
ATOM	2188	CE	TYR	1227	-3.315	-26.895	48.138	1.00	19.87
ATOM	2189	CH	TYR	1227	-3.236	-28.172	48.016	1.00	20.34
ATOM	2200	C	TYR	1227	-2.184	-25.026	50.721	1.00	14.61
ATOM	2201	O	TYR	1227	-1.163	-25.431	50.770	1.00	15.84
ATOM	2202	N	SER	1228	-2.935	-25.677	51.704	1.00	17.14
ATOM	2203	CA	SER	1228	-2.932	-27.488	52.915	1.00	17.24
ATOM	2204	CB	SER	1228	-4.115	-27.450	53.821	1.00	17.68
ATOM	2205	CG	SER	1228	-5.330	-27.636	53.206	1.00	18.49
ATOM	2206	O	SER	1228	-3.637	-28.402	53.704	1.00	19.77
ATOM	2207	O	SER	1228	-1.512	-28.125	53.989	1.00	19.76
ATOM	2208	N	PHE	1229	-1.233	-27.194	54.370	1.00	17.16
ATOM	2209	CA	PHE	1229	-0.031	-27.054	54.822	1.00	18.83
ATOM	2210	CB	PHE	1229	-0.190	-28.563	55.456	1.00	17.59
ATOM	2211	CG	PHE	1229	-0.513	-28.421	56.714	1.00	17.48
ATOM	2212	CD1	PHE	1229	-1.960	-28.627	56.630	1.00	18.59
ATOM	2213	CD2	PHE	1229	-0.239	-28.941	57.916	1.00	20.98
ATOM	2214	CD3	PHE	1229	-2.734	-28.952	57.814	1.00	19.23
ATOM	2215	CE2	PHE	1229	-1.600	-29.074	59.075	1.00	21.94
ATOM	2216	C7	PHE	1229	-2.267	-29.878	59.033	1.00	20.88
ATOM	2217	C	PHE	1229	-1.236	-28.952	58.965	1.00	18.51
ATOM	2218	O	PHE	1229	-2.116	-28.929	58.452	1.00	18.61
ATOM	2219	N	ALA	1230	-1.116	-28.972	52.691	1.00	19.96
ATOM	2220	CA	ALA	1230	-2.346	-28.147	51.822	1.00	18.17
ATOM	2221	CB	ALA	1230	-2.113	-28.854	50.435	1.00	18.08
ATOM	2222	C	ALA	1230	-2.376	-28.755	51.723	1.00	17.32
ATOM	2223	O	ALA	1230	-3.773	-28.216	51.757	1.00	17.17
ATOM	2224	N	LYS	1231	-1.435	-28.518	51.600	1.00	17.83
ATOM	2225	CA	LYS	1231	-1.517	-28.971	51.493	1.00	17.56
ATOM	2226	CB	LYS	1231	-0.116	-28.546	51.291	1.00	17.61
ATOM	2227	CG	LYS	1231	-0.110	-28.673	51.122	1.00	20.84
ATOM	2228	CD	LYS	1231	-0.869	-28.632	49.940	1.00	20.01
ATOM	2229	CE	LYS	1231	-0.434	-28.086	49.634	1.00	31.79
ATOM	2230	N7	LYS	1231	-0.862	-28.058	50.706	1.00	30.95
ATOM	2231	C	LYS	1231	-2.117	-28.564	52.789	1.00	17.93
ATOM	2232	O	LYS	1231	-2.910	-28.445	52.767	1.00	18.83
ATOM	2233	N	LEU	1232	-1.616	-26.072	53.916	1.00	17.47
ATOM	2234	CA	LEU	1232	-2.007	-26.557	55.219	1.00	18.49
ATOM	2235	CB	LEU	1232	-1.265	-26.861	56.524	1.00	20.18
ATOM	2236	CG	LEU	1232	-1.434	-26.866	57.758	1.00	20.23
ATOM	2237	CD1	LEU	1232	-0.233	-26.105	58.581	1.00	20.74
ATOM	2238	CD2	LEU	1232	-2.610	-26.670	58.358	1.00	20.63
ATOM	2239	C	LEU	1232	-3.511	-26.918	55.594	1.00	18.93
ATOM	2240	O	LEU	1232	-4.311	-27.027	55.777	1.00	18.78
ATOM	2241	N	PHE	1233	-4.013	-25.102	55.695	1.00	18.10
ATOM	2242	CA	PHE	1233	-5.410	-24.775	55.122	1.00	20.73
ATOM	2243	CB	PHE	1233	-5.721	-25.309	54.743	1.00	18.29
ATOM	2244	CG	PHE	1233	-4.907	-25.816	55.680	1.00	19.77
ATOM	2245	CD1	PHE	1233	-4.608	-25.581	56.396	1.00	18.49
ATOM	2246	CD2	PHE	1233	-4.618	-25.661	56.116	1.00	17.61
ATOM	2247	CE1	PHE	1233	-3.940	-25.653	57.169	1.00	17.42
ATOM	2248	CE2	PHE	1233	-3.961	-26.117	56.926	1.00	17.70
ATOM	2249	C2	PHE	1233	-3.618	-26.413	57.127	1.00	17.50
ATOM	2250	C	PHE	1233	-6.208	-25.656	54.316	1.00	21.36
ATOM	2251	O	PHE	1233	-7.259	-26.215	54.711	1.00	21.69
ATOM	2252	N	ALA	1234	-5.819	-25.840	55.084	1.00	21.60
ATOM	2253	CA	ALA	1234	-6.661	-26.659	52.147	1.00	21.61
ATOM	2254	CB	ALA	1234	-5.910	-26.612	50.758	1.00	21.86
ATOM	2255	C	ALA	1234	-6.709	-28.133	52.612	1.00	21.65
ATOM	2256	O	ALA	1234	-7.719	-28.558	52.460	1.00	19.32
ATOM	2257	N	ASP	1235	-5.614	-28.675	53.179	1.00	23.15
ATOM	2258	CA	ASP	1235	-5.614	-30.961	53.646	1.00	26.64
ATOM	2259	CB	ASP	1235	-4.204	-30.557	53.913	1.00	26.19
ATOM	2260	CG	ASP	1235	-3.310	-30.562	52.767	1.00	30.30
ATOM	2261	OD1	ASP	1235	-3.758	-30.941	51.657	1.00	29.31
ATOM	2262	OD2	ASP	1235	-2.153	-30.185	52.941	1.00	30.67
ATOM	2263	C	ASP	1235	-6.561	-30.216	54.884	1.00	25.67
ATOM	2264	O	ASP	1235	-6.896	-31.313	55.275	1.00	27.41
ATOM	2265	N	GLU	1236	-6.935	-29.098	55.500	1.00	26.80
ATOM	2266	CA	GLU	1236	-7.779	-29.131	56.693	1.00	28.17
ATOM	2267	CB	GLU	1236	-7.236	-28.167	57.749	1.00	28.31

ATOM	8276	GL	GLN	1236	-10.800	-28.587	58.721	1.00	31.41
ATOM	8277	OH	GLN	1236	-10.947	-28.507	58.741	1.00	31.40
ATOM	8278	OR1	GLN	1236	-8.871	-30.252	58.700	1.00	32.20
ATOM	8279	HE1	GLN	1236	-5.686	-30.797	58.587	1.00	34.13
ATOM	8280	C	GLN	1236	-8.147	-28.805	58.407	1.00	35.14
ATOM	8281	O	GLN	1236	-10.098	-28.954	58.277	1.00	35.25
ATOM	8284	N	GLY	1237	-9.951	-28.348	57.214	1.00	35.86
ATOM	8285	CA	GLY	1237	-10.905	-28.032	58.863	1.00	35.43
ATOM	8286	C	GLY	1237	-11.165	-28.576	58.567	1.00	35.93
ATOM	8287	O	GLY	1237	-12.165	-26.249	58.937	1.00	32.59
ATOM	8288	N	LEU	1238	-10.286	-25.634	55.033	1.00	28.83
ATOM	8289	CA	LEU	1238	-10.444	-25.257	54.771	1.00	28.65
ATOM	8290	CB	LEU	1238	-9.471	-23.433	55.568	1.00	23.60
ATOM	8291	CG	LEU	1238	-9.945	-23.803	56.866	1.00	33.57
ATOM	8292	CD1	LEU	1238	-8.833	-23.032	57.548	1.00	23.17
ATOM	8293	CD2	LEU	1238	-11.110	-23.918	56.559	1.00	33.61
ATOM	8294	C	LEU	1238	-10.225	-21.033	53.283	1.00	28.94
ATOM	8295	O	LEU	1238	-9.085	-21.914	50.335	1.00	23.39
ATOM	8296	N	ASN	1239	-11.313	-23.943	50.523	1.00	24.94
ATOM	8297	CA	ASN	1239	-11.206	-23.733	51.080	1.00	24.45
ATOM	8298	CB	ASN	1239	-11.053	-23.803	50.369	1.00	25.67
ATOM	8299	CG	ASN	1239	-11.838	-23.213	50.844	1.00	20.98
ATOM	8300	OD1	ASN	1239	-10.693	-23.643	50.803	1.00	31.35
ATOM	8291	ND2	ASN	1239	-12.905	-23.904	51.188	1.00	33.26
ATOM	8292	C	ASN	1239	-11.527	-23.391	50.573	1.00	22.39
ATOM	8293	O	ASN	1239	-11.763	-23.201	49.332	1.00	24.50
ATOM	8294	N	VAL	1240	-11.548	-23.420	51.375	1.00	21.31
ATOM	8295	CA	VAL	1240	-11.804	-23.039	51.036	1.00	19.30
ATOM	8296	CB	VAL	1240	-13.137	-18.519	51.629	1.00	20.14
ATOM	8297	CG1	VAL	1240	-13.357	-18.098	51.141	1.00	18.37
ATOM	8298	CG2	VAL	1240	-14.268	-20.413	51.176	1.00	17.75
ATOM	8299	C	VAL	1240	-10.691	-18.190	51.683	1.00	19.16
ATOM	8300	O	VAL	1240	-10.637	-18.960	52.868	1.00	18.98
ATOM	8301	N	MET	1241	-9.811	-18.719	50.788	1.00	18.30
ATOM	8302	CA	MET	1241	-8.867	-18.922	51.110	1.00	17.27
ATOM	8303	CB	MET	1241	-7.383	-14.672	50.907	1.00	17.64
ATOM	8304	CG	MET	1241	-7.203	-18.922	51.709	1.00	18.74
ATOM	8305	SD	MET	1241	-5.840	-20.906	51.216	1.00	15.35
ATOM	8306	CE	MET	1241	-6.814	-20.518	51.043	1.00	15.99
ATOM	8307	C	MET	1241	-5.623	-18.583	50.521	1.00	16.92
ATOM	8308	O	MET	1241	-8.977	-18.469	49.348	1.00	17.02
ATOM	8309	N	LEU	1242	-8.171	-18.531	51.249	1.00	16.38
ATOM	8310	CA	LEU	1242	-8.067	-14.235	50.694	1.00	17.97
ATOM	8311	CB	LEU	1242	-9.950	-18.276	51.101	1.00	19.81
ATOM	8312	CG	LEU	1242	-9.947	-11.757	51.253	1.00	20.91
ATOM	8313	CD1	LEU	1242	-7.918	-11.072	51.987	1.00	23.93
ATOM	8314	CD2	LEU	1242	-9.038	-11.402	49.776	1.00	21.85
ATOM	8315	C	LEU	1242	-6.625	-18.759	50.682	1.00	16.01
ATOM	8316	O	LEU	1242	-5.911	-18.860	51.679	1.00	14.63
ATOM	8317	N	VAL	1243	-6.201	-18.256	49.529	1.00	16.58
ATOM	8318	CA	VAL	1243	-4.859	-17.713	49.381	1.00	15.62
ATOM	8319	CB	VAL	1243	-4.253	-18.192	48.047	1.00	15.84
ATOM	8320	CG1	VAL	1243	-4.801	-17.644	47.954	1.00	15.94
ATOM	8321	CG2	VAL	1243	-4.274	-14.683	47.917	1.00	17.75
ATOM	8322	C	VAL	1243	-5.090	-11.237	49.437	1.00	15.28
ATOM	8323	O	VAL	1243	-5.277	-10.550	48.373	1.00	14.54
ATOM	8324	N	GLY	1244	-5.083	-10.862	50.622	1.00	16.14
ATOM	8325	CA	GLY	1244	-5.351	-9.244	50.730	1.00	18.27
ATOM	8326	C	GLY	1244	-4.156	-8.347	50.963	1.00	16.28
ATOM	8327	O	GLY	1244	-3.061	-8.815	51.308	1.00	14.65
ATOM	8328	N	ASP	1245	-4.368	-7.048	50.788	1.00	17.20
ATOM	8329	CA	ASP	1245	-3.276	-6.105	50.985	1.00	17.71
ATOM	8330	CB	ASP	1245	-3.620	-4.728	50.369	1.00	17.64
ATOM	8331	CG	ASP	1245	-4.889	-4.173	50.912	1.00	16.66
ATOM	8332	OD1	ASP	1245	-5.415	-4.640	51.951	1.00	16.51
ATOM	8333	OD2	ASP	1245	-5.338	-7.117	50.384	1.00	15.60
ATOM	8334	C	ASP	1245	-2.837	-5.978	52.404	1.00	16.69
ATOM	8335	O	ASP	1245	-1.944	-5.202	52.715	1.00	15.57
ATOM	8336	N	THR	1246	-1.471	-6.758	53.291	1.00	16.51
ATOM	8337	CA	THR	1246	-3.050	-6.722	54.685	1.00	18.68
ATOM	8338	CB	THR	1246	-3.963	-7.606	55.559	1.00	15.12
ATOM	8339	CG	THR	1246	-4.087	-8.920	55.004	1.00	20.15
ATOM	8340	C	THR	1246	-1.617	-7.262	54.687	1.00	15.95
ATOM	8341	O	THR	1246	-0.865	-7.062	55.642	1.00	18.43
ATOM	8342	N	LEU	1247	-1.234	-7.947	53.606	1.00	17.78
ATOM	8343	CA	LEU	1247	0.131	-8.473	53.505	1.00	17.35
ATOM	8344	CB	LEU	1247	0.302	-9.318	52.125	1.00	16.63

ATOM	-448	CG	LEU	1245	-0.127	-0.149	50.854	1.00	14.11
ATOM	-446	CG1	LEU	1245	-1.181	-0.788	51.524	1.00	14.50
ATOM	-447	CG2	LEU	1245	-0.135	-0.488	49.777	1.00	14.60
ATOM	-449	C	LEU	1245	-1.143	-0.743	53.521	1.00	14.70
ATOM	-447	C	LEU	1247	-1.330	-0.720	53.792	1.00	14.90
ATOM	-450	N	GLY	1248	-0.082	-0.116	53.212	1.00	14.91
ATOM	-451	CA	GLY	1248	-1.094	-0.478	53.122	1.00	14.97
ATOM	-452	C	GLY	1248	-0.117	-0.763	54.624	1.00	15.47
ATOM	-453	O	GLY	1248	-0.727	-0.161	54.820	1.00	16.88
ATOM	-454	N	MET	1249	-1.325	-0.162	55.608	1.00	14.33
ATOM	-455	CA	MET	1249	-1.718	-0.005	56.936	1.00	14.81
ATOM	-456	CB	MET	1249	-0.517	-0.102	57.330	1.00	19.47
ATOM	-457	CG	MET	1249	-0.018	-0.114	57.330	1.00	21.60
ATOM	-458	SD	MET	1249	-1.516	-0.366	58.907	1.00	26.00
ATOM	-459	SE	MET	1249	-0.965	-0.181	59.756	1.00	27.35
ATOM	-460	C	MET	1249	-2.180	-0.149	57.603	1.00	16.50
ATOM	-461	O	MET	1249	-3.417	-0.405	58.900	1.00	14.81
ATOM	-462	N	THR	1250	-1.521	-0.759	57.511	1.00	14.12
ATOM	-463	CA	THR	1250	-1.947	-0.646	58.110	1.00	18.01
ATOM	-464	CB	THR	1250	-0.781	-0.108	58.110	1.00	19.83
ATOM	-465	CG1	THR	1250	-1.098	-1.059	58.900	1.00	25.56
ATOM	-466	CG2	THR	1250	-0.341	-1.019	56.707	1.00	21.14
ATOM	-467	C	THR	1250	-3.111	-0.111	57.568	1.00	16.42
ATOM	-468	O	THR	1250	-3.920	-1.011	57.900	1.00	17.25
ATOM	-469	N	VAL	1251	-3.207	-0.114	56.960	1.00	14.38
ATOM	-470	CA	VAL	1251	-4.295	-0.739	55.806	1.00	14.53
ATOM	-471	CB	VAL	1251	-3.792	-1.309	58.854	1.00	15.45
ATOM	-472	CG1	VAL	1251	-4.975	-1.083	57.103	1.00	12.75
ATOM	-473	CG2	VAL	1251	-0.796	-1.148	58.110	1.00	15.08
ATOM	-474	C	VAL	1251	-5.419	-0.732	57.500	1.00	14.56
ATOM	-475	O	VAL	1251	-6.573	-0.908	57.300	1.00	16.60
ATOM	-476	N	GLN	1252	-5.077	-0.506	58.400	1.00	11.43
ATOM	-477	CA	GLN	1252	-6.064	-0.504	58.000	1.00	13.81
ATOM	-478	CB	GLN	1252	-5.493	-0.649	58.600	1.00	14.06
ATOM	-479	CG	GLN	1252	-4.925	-0.404	57.511	1.00	15.86
ATOM	-480	CD	GLN	1252	-4.458	-0.402	58.000	1.00	14.76
ATOM	-481	OE1	GLN	1252	-4.108	-0.304	57.300	1.00	14.00
ATOM	-482	NE2	GLN	1252	-4.358	-0.619	49.500	1.00	12.71
ATOM	-483	C	GLN	1252	-6.581	-0.762	57.000	1.00	14.83
ATOM	-484	O	GLN	1252	-7.126	-0.101	57.300	1.00	15.54
ATOM	-485	N	GLY	1253	-5.129	-0.102	57.100	1.00	15.09
ATOM	-486	CA	GLY	1253	-6.163	-0.760	57.400	1.00	15.66
ATOM	-487	C	GLY	1253	-5.688	-0.769	57.500	1.00	17.26
ATOM	-488	O	GLY	1253	-6.460	-0.501	58.100	1.00	18.19
ATOM	-489	N	HR	1254	-5.001	-0.800	57.500	1.00	17.51
ATOM	-490	CA	HR	1254	-4.671	-1.401	58.400	1.00	18.76
ATOM	-491	CB	HR	1254	-4.156	-1.003	57.900	1.00	19.45
ATOM	-492	CG	HR	1254	-5.113	-1.101	57.900	1.00	19.97
ATOM	-493	CH2	HR	1254	-5.112	-2.083	57.500	1.00	19.30
ATOM	-494	ND1	HR	1254	-6.287	-0.502	57.500	1.00	18.30
ATOM	-495	OE1	HR	1254	-6.965	-0.506	57.500	1.00	22.01
ATOM	-496	NE2	HR	1254	-6.166	-1.541	57.100	1.00	21.60
ATOM	-497	C	HR	1254	-5.854	-1.103	57.500	1.00	18.50
ATOM	-498	O	HR	1254	-7.066	-1.508	57.500	1.00	19.51
ATOM	-499	N	ASP	1255	-5.467	-0.102	57.500	1.00	19.71
ATOM	-500	CA	ASP	1255	-7.130	-0.601	57.500	1.00	23.34
ATOM	-501	CB	ASP	1255	-7.940	-0.600	57.500	1.00	27.00
ATOM	-502	CG	ASP	1255	-5.648	-3.000	57.500	1.00	29.81
ATOM	-503	OD1	ASP	1255	-4.101	-3.213	57.400	1.00	33.96
ATOM	-504	OD2	ASP	1255	-4.182	-3.776	58.100	1.00	37.20
ATOM	-505	C	ASP	1255	-1.096	-0.113	58.200	1.00	21.29
ATOM	-506	O	ASP	1255	-0.156	-0.883	58.900	1.00	21.48
ATOM	-507	N	SER	1256	-0.931	-0.180	58.350	1.00	19.07
ATOM	-508	CA	SER	1256	-0.398	-0.009	58.300	1.00	16.19
ATOM	-509	CB	SER	1256	-0.761	-2.004	57.500	1.00	14.13
ATOM	-510	OG	SER	1256	-0.016	-2.408	54.700	1.00	13.20
ATOM	-511	C	SER	1256	-0.394	-0.700	57.100	1.00	16.00
ATOM	-512	O	SER	1256	-0.628	-0.906	58.300	1.00	16.64
ATOM	-513	N	THR	1257	-1.526	-0.444	58.450	1.00	15.54
ATOM	-514	CA	THR	1257	-1.616	-1.307	58.290	1.00	13.85
ATOM	-515	CB	THR	1257	-3.001	-2.000	58.214	1.00	14.68
ATOM	-516	CG1	THR	1257	-4.005	-1.000	57.940	1.00	13.16
ATOM	-517	CG2	THR	1257	-3.333	-2.708	54.510	1.00	14.28
ATOM	-518	C	THR	1257	-1.583	-0.506	57.978	1.00	14.73
ATOM	-519	O	THR	1257	-1.260	-1.202	59.331	1.00	14.37
ATOM	-520	N	LEU	1258	-1.296	-0.751	52.028	1.00	11.56
ATOM	-521	CA	LEU	1258	-1.116	-1.522	50.810	1.00	14.62

ATOM	441	CP	LEU	1257	-1.117	-1.117	51.151	1.00	14.75
ATOM	442	CP	LEU	1258	-1.415	-1.709	51.187	1.00	14.81
ATOM	443	CB	LEU	1259	-3.287	2.193	52.169	1.00	18.31
ATOM	445	CB	LEU	1259	-3.175	5.111	51.451	1.00	17.85
ATOM	446	C	LEU	1259	-0.949	1.172	49.574	1.00	13.86
ATOM	447	O	LEU	1259	-0.659	1.148	49.855	1.00	14.09
ATOM	448	N	PRO	1259	1.111	0.790	50.419	1.00	16.27
ATOM	449	CP	PRO	1259	-1.618	0.817	51.136	1.00	14.93
ATOM	450	CA	PRO	1259	-1.291	0.148	49.662	1.00	13.34
ATOM	451	CB	PRO	1259	-3.521	0.372	50.544	1.00	17.87
ATOM	452	CB	PRO	1259	-1.850	-0.176	51.830	1.00	22.73
ATOM	453	C	PRO	1259	-2.269	-0.337	48.733	1.00	13.69
ATOM	454	O	PRO	1259	-2.957	-1.110	47.779	1.00	11.25
ATOM	455	N	VAL	1260	1.151	-1.549	49.011	1.00	12.02
ATOM	456	CA	VAL	1260	1.061	-2.342	43.000	1.00	12.65
ATOM	457	CB	VAL	1260	-1.921	-3.335	48.981	1.00	17.45
ATOM	458	CB1	VAL	1260	-0.259	-5.017	48.152	1.00	11.57
ATOM	459	CB2	VAL	1260	0.491	-4.135	50.154	1.00	9.60
ATOM	460	C	VAL	1260	-0.659	-2.541	46.892	1.00	12.91
ATOM	461	O	VAL	1260	-0.151	-1.844	46.838	1.00	12.39
ATOM	462	N	THR	1261	1.329	-3.111	45.951	1.00	14.32
ATOM	463	CA	THR	1261	1.019	-3.160	44.519	1.00	13.63
ATOM	464	CB	THR	1261	2.327	-2.316	43.714	1.00	16.67
ATOM	465	CB1	THR	1261	3.072	-1.749	44.537	1.00	18.95
ATOM	466	CB2	THR	1261	2.010	-2.410	42.185	1.00	22.02
ATOM	467	C	THR	1261	0.268	-4.219	43.910	1.00	12.64
ATOM	468	O	THR	1261	0.115	-5.159	44.573	1.00	11.51
ATOM	469	N	VAL	1262	-0.197	-4.113	42.697	1.00	10.72
ATOM	470	CA	VAL	1262	-0.908	-5.171	42.017	1.00	11.46
ATOM	471	CB	VAL	1262	-1.484	-4.632	40.655	1.00	10.61
ATOM	472	CB1	VAL	1262	-2.069	-5.312	39.875	1.00	10.47
ATOM	473	CB2	VAL	1262	-2.576	-3.611	40.956	1.00	10.70
ATOM	474	C	VAL	1262	0.068	-6.339	41.790	1.00	11.29
ATOM	475	O	VAL	1262	-0.310	-7.511	41.899	1.00	11.57
ATOM	476	N	ALA	1263	1.324	-6.066	41.497	1.00	12.19
ATOM	477	CA	ALA	1263	2.339	-7.101	41.275	1.00	11.44
ATOM	478	CB	ALA	1263	3.673	-6.349	40.841	1.00	11.75
ATOM	479	C	ALA	1263	-2.521	-7.113	40.516	1.00	11.93
ATOM	480	O	ALA	1263	2.724	-9.038	40.505	1.00	10.47
ATOM	481	N	ASP	1264	0.491	-7.173	43.708	1.00	9.71
ATOM	482	CA	ASP	1264	1.648	-7.143	44.981	1.00	12.19
ATOM	483	CB	ASP	1264	2.646	-6.315	46.177	1.00	12.97
ATOM	484	CB	ASP	1264	3.782	-5.934	46.155	1.00	15.35
ATOM	485	CB1	ASP	1264	4.833	-6.116	45.846	1.00	13.99
ATOM	486	CB2	ASP	1264	3.655	-4.895	46.711	1.00	12.70
ATOM	487	C	ASP	1264	1.498	-8.133	45.157	1.00	11.29
ATOM	488	O	ASP	1264	1.709	-10.016	45.488	1.00	12.23
ATOM	489	N	ILE	1265	0.219	-8.434	44.920	1.00	10.36
ATOM	470	CA	ILE	1265	-0.986	-9.163	45.053	1.00	9.25
ATOM	471	CB	ILE	1265	-2.194	-8.447	44.710	1.00	8.35
ATOM	472	CB2	ILE	1265	-3.381	-9.430	44.721	1.00	10.30
ATOM	473	CB1	ILE	1265	-2.416	-7.113	45.767	1.00	10.86
ATOM	474	CB1	ILE	1265	-2.611	-9.187	47.160	1.00	13.04
ATOM	475	C	ILE	1265	-0.782	-10.473	44.121	1.00	10.11
ATOM	476	O	ILE	1265	-1.666	-11.511	44.519	1.00	10.74
ATOM	477	N	ALA	1266	-0.875	-10.119	41.878	1.00	11.37
ATOM	478	CA	ALA	1266	-3.139	-11.111	41.915	1.00	10.89
ATOM	479	CB	ALA	1266	-0.001	-10.803	40.512	1.00	10.92
ATOM	480	C	ALA	1266	0.861	-12.159	42.259	1.00	10.56
ATOM	481	O	ALA	1266	0.655	-13.669	42.048	1.00	10.01
ATOM	482	N	TYR	1267	1.882	-11.919	41.905	1.00	9.93
ATOM	483	CA	TYR	1267	2.958	-12.787	41.560	1.00	8.50
ATOM	484	CB	TYR	1267	4.122	-11.911	41.911	1.00	9.28
ATOM	485	CB	TYR	1267	5.216	-12.676	44.598	1.00	9.52
ATOM	486	CB1	TYR	1267	6.098	-13.493	45.879	1.00	11.95
ATOM	487	CB1	TYR	1267	7.142	-14.176	44.509	1.00	12.07
ATOM	488	CB2	TYR	1267	5.456	-12.519	45.972	1.00	12.37
ATOM	489	CB2	TYR	1267	6.475	-13.237	46.615	1.00	12.84
ATOM	490	CZ	TYR	1267	7.321	-14.039	45.875	1.00	14.28
ATOM	491	OH	TYR	1267	8.365	-14.691	46.510	1.00	13.09
ATOM	492	C	TYR	1267	2.461	-13.731	44.441	1.00	9.24
ATOM	493	O	TYR	1267	2.636	-14.960	44.368	1.00	7.23
ATOM	494	N	HIS	1268	1.808	-13.161	45.448	1.00	10.07
ATOM	495	CA	HIS	1268	1.277	-13.968	46.549	1.00	11.40
ATOM	496	CB	HIS	1268	0.899	-13.042	47.717	1.00	10.91
ATOM	497	CG	HIS	1268	2.093	-12.471	46.425	1.00	10.67
ATOM	498	CD2	HIS	1268	2.720	-11.277	48.299	1.00	12.54

ATOM	4507	NH1	HIS	1268	-1.283	-13.11	43.817	1.00	11.68
ATOM	4508	CH1	HIS	1268	-1.596	-11.346	43.896	1.00	12.34
ATOM	4509	NE2	HIS	1268	-1.864	-11.331	43.995	1.00	11.55
ATOM	4509	C	HIS	1268	-1.779	-14.836	46.696	1.00	12.09
ATOM	4510	C	HIS	1268	-0.164	-15.943	46.610	1.00	10.75
ATOM	4514	N	THR	1269	-1.775	-14.131	45.117	1.00	11.59
ATOM	4515	CA	THR	1269	-1.754	-15.904	44.591	1.00	11.48
ATOM	4516	CB	THR	1269	-1.157	-14.134	43.891	1.00	11.59
ATOM	4517	CG1	THR	1269	-3.315	-13.119	44.319	1.00	12.48
ATOM	4518	CG2	THR	1269	-3.651	-15.039	42.884	1.00	13.07
ATOM	4519	C	THR	1269	-1.340	-16.186	43.909	1.00	10.67
ATOM	4510	O	THR	1269	-1.928	-17.443	44.119	1.00	13.58
ATOM	4511	N	ALA	1270	-0.392	-16.301	43.079	1.00	8.94
ATOM	4512	CA	ALA	1270	-0.208	-17.478	42.411	1.00	10.29
ATOM	4513	CB	ALA	1270	-1.376	-17.076	41.465	1.00	11.72
ATOM	4514	C	ALA	1270	-0.737	-18.492	43.437	1.00	12.90
ATOM	4515	O	ALA	1270	-0.551	-19.561	43.869	1.00	12.02
ATOM	4516	N	ALA	1271	-1.579	-17.993	44.495	1.00	11.07
ATOM	4517	CA	ALA	1271	-1.924	-18.573	45.534	1.00	11.19
ATOM	4518	CB	ALA	1271	-1.733	-18.084	46.541	1.00	10.42
ATOM	4519	C	ALA	1271	-0.919	-19.541	46.751	1.00	11.93
ATOM	4520	O	ALA	1271	-0.210	-20.843	46.458	1.00	9.16
ATOM	4521	N	VAL	1272	-0.238	-18.923	46.645	1.00	12.77
ATOM	4522	CA	VAL	1272	-1.358	-18.523	47.331	1.00	12.55
ATOM	4523	CB	VAL	1272	-2.338	-18.435	47.812	1.00	10.99
ATOM	4524	CG1	VAL	1272	-3.613	-19.062	43.365	1.00	13.11
ATOM	4525	CG2	VAL	1272	-1.660	-17.597	43.793	1.00	10.82
ATOM	4526	C	VAL	1272	-2.063	-20.535	46.436	1.00	12.93
ATOM	4527	O	VAL	1272	-2.443	-21.024	46.482	1.00	13.32
ATOM	4528	N	ARG	1273	-2.226	-20.191	45.163	1.00	12.36
ATOM	4529	CA	ARG	1273	-2.863	-21.103	43.336	1.00	13.32
ATOM	4530	CB	ARG	1273	-3.053	-20.457	41.562	1.00	13.85
ATOM	4531	CG	ARG	1273	-3.681	-21.381	41.517	1.00	15.25
ATOM	4532	CD	ARG	1273	-5.033	-21.909	43.166	1.00	15.44
ATOM	4533	NE	ARG	1273	-6.101	-20.913	43.171	1.00	15.46
ATOM	4534	CZ	ARG	1273	-7.092	-21.060	40.542	1.00	16.08
ATOM	4535	NH1	ARG	1273	-7.953	-22.171	43.454	1.00	14.02
ATOM	4536	NH2	ARG	1273	-8.213	-20.110	41.192	1.00	14.57
ATOM	4537	C	ARG	1273	-2.193	-22.310	43.388	1.00	14.78
ATOM	4538	O	ARG	1273	-2.713	-23.466	43.333	1.00	15.68
ATOM	4539	N	FRG	1274	-0.777	-22.137	43.123	1.00	13.54
ATOM	4540	CA	FRG	1274	-0.033	-23.543	44.003	1.00	15.40
ATOM	4541	CB	FRG	1274	-1.513	-23.195	43.549	1.00	14.07
ATOM	4542	CG	FRG	1274	-1.922	-22.195	42.723	1.00	17.35
ATOM	4543	CD	FRG	1274	-3.431	-22.583	40.532	1.00	16.78
ATOM	4544	NE	FRG	1274	-3.790	-21.497	41.435	1.00	20.34
ATOM	4545	CZ	FRG	1274	-4.065	-20.203	41.573	1.00	20.54
ATOM	4546	NH1	FRG	1274	-4.039	-19.634	40.773	1.00	18.45
ATOM	4547	NH2	FRG	1274	-4.341	-19.466	40.502	1.00	22.65
ATOM	4548	C	FRG	1274	-0.222	-24.468	43.195	1.00	16.23
ATOM	4549	O	FRG	1274	-0.225	-25.683	43.643	1.00	16.53
ATOM	4550	N	GLY	1275	-0.425	-23.872	43.053	1.00	15.34
ATOM	4551	CA	GLY	1275	-0.877	-24.653	43.354	1.00	16.35
ATOM	4552	C	GLY	1275	-2.105	-25.178	41.680	1.00	17.09
ATOM	4553	O	GLY	1275	-2.367	-26.137	43.338	1.00	17.86
ATOM	4554	N	ALA	1276	-3.341	-24.441	43.077	1.00	15.42
ATOM	4555	CA	ALA	1276	-4.457	-24.747	43.141	1.00	15.88
ATOM	4556	CB	ALA	1276	-5.158	-23.931	43.179	1.00	12.41
ATOM	4557	C	ALA	1276	-5.132	-24.625	43.170	1.00	18.03
ATOM	4558	O	ALA	1276	-5.898	-23.690	43.546	1.00	17.23
ATOM	4559	N	PRO	1277	-4.843	-25.550	44.541	1.00	19.05
ATOM	4560	CD	PRO	1277	-4.009	-26.711	43.329	1.00	21.91
ATOM	4561	CA	PRO	1277	-5.402	-25.557	43.436	1.00	20.89
ATOM	4562	CB	PRO	1277	-4.691	-26.645	42.734	1.00	21.37
ATOM	4563	CG	PRO	1277	-4.452	-27.631	43.890	1.00	23.97
ATOM	4564	C	PRO	1277	-6.922	-25.554	43.540	1.00	21.51
ATOM	4565	O	PRO	1277	-7.458	-25.173	42.596	1.00	21.21
ATOM	4566	N	ASN	1278	-7.615	-26.019	44.571	1.00	20.14
ATOM	4567	CA	ASN	1278	-9.065	-26.171	44.291	1.00	21.69
ATOM	4568	CB	ASN	1278	-9.483	-27.622	44.567	1.00	25.65
ATOM	4569	CG	ASN	1278	-8.833	-28.600	43.610	1.00	26.75
ATOM	4570	OD1	ASN	1278	-8.927	-28.446	42.393	1.00	30.67
ATOM	4571	ND2	ASN	1278	-8.172	-29.612	44.154	1.00	29.13
ATOM	4572	C	ASN	1278	-9.823	-25.245	45.235	1.00	21.44
ATOM	4573	O	ASN	1278	-11.042	-25.346	45.364	1.00	20.63
ATOM	4574	N	CYS	1279	-9.111	-24.332	45.884	1.00	19.87
ATOM	4575	CA	CYS	1279	-9.763	-23.408	46.804	1.00	19.78

ATOM	8577	CB	LEU	1279	-8.144	-11.831	47.154	1.00	17.88
ATOM	8578	CG	LEU	1279	-11.738	-11.849	47.143	1.00	17.87
ATOM	8579	C	LEU	1279	-10.481	-11.131	46.955	1.00	18.66
ATOM	8580	O	LEU	1279	-10.106	-11.219	44.981	1.00	18.47
ATOM	8581	N	LEU	1280	-11.784	-11.530	46.738	1.00	18.34
ATOM	8582	CA	LEU	1280	-11.904	-10.339	46.179	1.00	17.84
ATOM	8583	CB	LEU	1280	-13.136	-10.689	46.814	1.00	19.49
ATOM	8584	CG	LEU	1280	-13.960	-10.734	46.466	1.00	18.98
ATOM	8585	CD1	LEU	1280	-14.186	-10.712	44.897	1.00	19.63
ATOM	8586	CD2	LEU	1280	-15.291	-11.559	47.147	1.00	17.89
ATOM	8587	C	LEU	1280	-10.937	-11.259	46.809	1.00	17.48
ATOM	8588	O	LEU	1280	-10.763	-11.303	47.805	1.00	16.90
ATOM	8589	N	LEU	1281	-10.285	-11.631	45.676	1.00	17.29
ATOM	8590	CA	LEU	1281	-8.174	-11.639	45.930	1.00	16.61
ATOM	8591	CB	LEU	1281	-7.996	-11.249	45.137	1.00	18.66
ATOM	8592	CG	LEU	1281	-6.651	-11.499	45.638	1.00	17.48
ATOM	8593	CD1	LEU	1281	-5.524	-11.139	44.929	1.00	15.28
ATOM	8594	CD2	LEU	1281	-6.566	-11.901	45.366	1.00	11.45
ATOM	8595	C	LEU	1281	-8.637	-11.193	45.633	1.00	17.29
ATOM	8596	O	LEU	1281	-9.905	-11.323	44.475	1.00	15.64
ATOM	8597	N	LEU	1282	-8.837	-11.399	46.689	1.00	16.41
ATOM	8598	CA	LEU	1282	-10.167	-11.383	46.561	1.00	17.05
ATOM	8599	CB	LEU	1282	-11.697	-11.534	47.699	1.00	16.06
ATOM	8600	CG	LEU	1282	-12.601	-11.795	47.550	1.00	17.50
ATOM	8601	CD1	LEU	1282	-12.847	-11.285	47.468	1.00	17.75
ATOM	8602	CD2	LEU	1282	-13.358	-11.176	48.732	1.00	18.80
ATOM	8603	C	LEU	1282	-8.875	-11.169	46.635	1.00	17.94
ATOM	8604	O	LEU	1282	-8.030	-11.425	47.487	1.00	22.05
ATOM	8605	N	ALA	1283	-8.711	-11.199	45.744	1.00	14.15
ATOM	8606	CA	ALA	1283	-7.519	-11.361	45.771	1.00	14.02
ATOM	8607	CB	ALA	1283	-6.694	-11.594	44.532	1.00	11.21
ATOM	8608	C	ALA	1283	-7.940	-11.901	45.855	1.00	12.71
ATOM	8609	O	ALA	1283	-8.862	-11.479	45.157	1.00	12.57
ATOM	8610	N	ASP	1284	-7.287	-9.131	46.719	1.00	13.81
ATOM	8611	CA	ASP	1284	-7.623	-7.718	46.827	1.00	14.31
ATOM	8612	CB	ASP	1284	-7.675	-7.093	48.113	1.00	17.63
ATOM	8613	CG	ASP	1284	-7.972	-7.298	49.310	1.00	19.26
ATOM	8614	CD1	ASP	1284	-9.101	-7.418	49.152	1.00	17.87
ATOM	8615	CD2	ASP	1284	-7.428	-7.301	50.430	1.00	23.10
ATOM	8616	C	ASP	1284	-7.001	-7.912	45.702	1.00	15.99
ATOM	8617	O	ASP	1284	-5.930	-7.356	45.202	1.00	14.33
ATOM	8618	N	LEU	1285	-7.688	-11.849	45.290	1.00	14.28
ATOM	8619	CA	LEU	1285	-7.104	-11.917	44.325	1.00	12.51
ATOM	8620	CB	LEU	1285	-8.151	-11.287	43.418	1.00	14.13
ATOM	8621	CG	LEU	1285	-8.543	-11.157	42.218	1.00	14.99
ATOM	8622	CD1	LEU	1285	-9.426	-11.365	41.262	1.00	15.19
ATOM	8623	CD2	LEU	1285	-7.377	-11.833	41.508	1.00	11.68
ATOM	8624	C	LEU	1285	-6.616	-11.907	45.373	1.00	11.60
ATOM	8625	O	LEU	1285	-7.389	-11.462	46.225	1.00	11.40
ATOM	8626	N	PRO	1286	-5.319	-11.569	48.349	1.00	11.91
ATOM	8627	CA	PRO	1286	-4.379	-11.134	44.477	1.00	12.67
ATOM	8628	CB	PRO	1286	-4.751	-11.621	46.312	1.00	13.67
ATOM	8629	CG	PRO	1286	-3.753	-11.209	46.223	1.00	14.83
ATOM	8630	CD	PRO	1286	-3.075	-11.237	44.759	1.00	11.80
ATOM	8631	C	PRO	1286	-5.078	-11.147	46.079	1.00	11.64
ATOM	8632	O	PRO	1286	-5.771	-11.781	45.138	1.00	14.91
ATOM	8633	N	PHE	1287	-4.581	-11.311	46.943	1.00	13.32
ATOM	8634	CA	PHE	1287	-4.779	-11.130	46.919	1.00	11.53
ATOM	8635	CB	PHE	1287	-3.695	-11.782	47.915	1.00	15.05
ATOM	8636	CG	PHE	1287	-3.661	-11.265	47.750	1.00	15.65
ATOM	8637	CD1	PHE	1287	-4.740	-11.120	47.939	1.00	16.81
ATOM	8638	CD2	PHE	1287	-2.435	-11.814	47.372	1.00	13.49
ATOM	8639	CE1	PHE	1287	-4.593	-11.490	47.865	1.00	16.89
ATOM	8640	CE2	PHE	1287	-2.281	-11.184	47.247	1.00	14.29
ATOM	8641	CZ	PHE	1287	-3.367	-11.032	47.492	1.00	17.50
ATOM	8642	O	PHE	1287	-4.581	-11.691	45.515	1.00	14.14
ATOM	8643	N	MET	1288	-3.581	-11.418	44.851	1.00	11.90
ATOM	8644	CA	MET	1288	-5.561	-11.484	45.071	1.00	13.14
ATOM	8645	CB	MET	1288	-5.555	-11.110	43.751	1.00	13.99
ATOM	8646	CG	MET	1288	-4.470	-11.198	43.687	1.00	15.56
ATOM	8647	CD	MET	1288	-4.792	-11.333	42.709	1.00	17.53
ATOM	8648	SD	MET	1288	-6.295	-11.296	43.134	1.00	16.61
ATOM	8649	CE	MET	1288	-5.573	-11.644	44.077	1.00	17.67
ATOM	8650	C	MET	1288	-5.377	-11.140	42.569	1.00	14.20
ATOM	8651	O	MET	1288	-4.814	-11.515	41.538	1.00	14.63
ATOM	8652	N	ALA	1289	-5.840	-11.901	42.704	1.00	12.49
ATOM	8653	CA	ALA	1289	-5.723	-11.046	41.596	1.00	13.64

ATOM	6653	CB	ALA	1289	-5.341	-1.477	41.113	1.00	11.28
ATOM	6654	C	ALA	1289	-5.139	-5.117	40.811	1.00	11.29
ATOM	6655	N	ALA	1289	-9.142	-0.819	39.816	1.00	11.28
ATOM	6656	H	TYR	1290	-8.545	-0.633	41.176	1.00	11.24
ATOM	6657	CA	TYR	1290	-8.547	-0.634	40.609	1.00	11.11
ATOM	6658	CB	TYR	1290	-10.184	-0.363	41.781	1.00	10.86
ATOM	6659	CG	TYR	1290	-10.176	-0.370	42.316	1.00	11.41
ATOM	6660	CD1	TYR	1290	-11.098	-0.371	43.500	1.00	10.85
ATOM	6661	CE1	TYR	1290	-11.111	-0.436	44.892	1.00	10.90
ATOM	6662	CD2	TYR	1290	-9.145	-0.844	43.567	1.00	11.59
ATOM	6663	CE2	TYR	1290	-9.142	-0.786	44.959	1.00	11.77
ATOM	6664	CE	TYR	1290	-10.180	-0.144	45.613	1.00	11.49
ATOM	6665	OH	TYR	1290	-10.112	-0.095	46.591	1.00	10.87
ATOM	6666	C	TYR	1290	-9.846	2.029	40.894	1.00	11.80
ATOM	6667	O	TYR	1290	-11.141	2.312	40.811	1.00	12.18
ATOM	6668	N	ALA	1291	-9.691	3.309	40.110	1.00	11.13
ATOM	6669	CA	ALA	1291	-9.484	4.414	40.191	1.00	12.52
ATOM	6670	CB	ALA	1291	-9.371	5.391	40.132	1.00	13.30
ATOM	6671	C	ALA	1291	-10.471	4.748	39.141	1.00	12.87
ATOM	6672	O	ALA	1291	-11.177	5.751	39.185	1.00	15.07
ATOM	6673	N	THR	1292	-10.401	3.929	38.093	1.00	13.11
ATOM	6674	CA	THR	1292	-11.291	4.111	36.957	1.00	13.77
ATOM	6675	CB	THR	1292	-10.626	4.827	35.751	1.00	14.58
ATOM	6676	CG1	THR	1292	-9.681	3.944	35.121	1.00	13.57
ATOM	6677	CG2	THR	1292	-9.860	6.085	36.110	1.00	15.36
ATOM	6678	C	THR	1292	-11.676	2.699	36.126	1.00	13.97
ATOM	6679	O	THR	1292	-10.971	1.718	36.849	1.00	12.52
ATOM	6680	N	PRO	1293	-12.805	2.514	35.821	1.00	10.10
ATOM	6681	CD	PRO	1293	-12.814	3.517	15.155	1.00	11.83
ATOM	6682	CA	PRO	1293	-13.118	1.222	35.376	1.00	12.00
ATOM	6683	CB	PRO	1293	-14.161	1.517	34.331	1.00	11.85
ATOM	6684	CG	PRO	1293	-15.071	2.695	35.178	1.00	11.15
ATOM	6685	C	PRO	1293	-12.118	-0.577	34.118	1.00	14.03
ATOM	6686	O	PRO	1293	-11.139	-0.588	34.717	1.00	15.96
ATOM	6687	N	GLU	1294	-11.191	1.351	32.181	1.00	14.44
ATOM	6688	CA	GLU	1294	-10.111	0.879	32.889	1.00	17.09
ATOM	6689	CB	GLU	1294	-10.014	2.647	31.836	1.00	20.15
ATOM	6690	CG	GLU	1294	-8.859	1.708	30.876	1.00	26.83
ATOM	6691	CD	GLU	1294	-8.134	2.922	30.121	1.00	32.90
ATOM	6692	OE1	GLU	1294	-9.114	3.251	31.111	1.00	34.11
ATOM	6693	OE2	GLU	1294	-8.161	3.553	29.479	1.00	37.17
ATOM	6694	C	GLU	1294	-9.136	0.279	30.471	1.00	18.65
ATOM	6695	O	GLU	1294	-8.984	-0.828	30.179	1.00	15.04
ATOM	6696	N	GLN	1295	-8.871	1.011	34.461	1.00	15.47
ATOM	6697	CA	GLN	1295	-9.759	0.501	35.157	1.00	18.54
ATOM	6698	CB	GLN	1295	-9.134	1.609	36.133	1.00	16.24
ATOM	6699	CG	GLN	1295	-9.417	2.631	35.137	1.00	13.28
ATOM	6700	CD	GLN	1295	-9.114	3.825	36.139	1.00	24.86
ATOM	6701	OE1	GLN	1295	-8.807	3.679	37.193	1.00	24.58
ATOM	6702	HE1	GLN	1295	-8.111	3.621	31.656	1.00	26.69
ATOM	6703	C	GLN	1295	-8.182	-0.681	36.101	1.00	13.96
ATOM	6704	O	GLN	1295	-11.091	-1.698	36.138	1.00	13.72
ATOM	6705	N	ALA	1296	-8.813	-0.854	36.376	1.00	13.84
ATOM	6706	CA	ALA	1296	-9.954	-0.711	37.377	1.00	13.48
ATOM	6707	CB	ALA	1296	-11.133	-1.452	37.348	1.00	14.59
ATOM	6708	C	ALA	1296	-9.951	-3.030	34.328	1.00	12.55
ATOM	6709	O	ALA	1296	-9.951	-4.081	37.310	1.00	13.71
ATOM	6710	N	PRO	1297	-10.135	-2.934	31.935	1.00	10.51
ATOM	6711	CA	PRO	1297	-10.361	-4.131	34.399	1.00	11.05
ATOM	6712	CB	PRO	1297	-10.885	-3.819	31.985	1.00	9.65
ATOM	6713	CG	PRO	1297	-12.296	-3.990	32.942	1.00	10.56
ATOM	6714	CD1	PRO	1297	-13.175	-3.279	33.929	1.00	10.04
ATOM	6715	CD2	PRO	1297	-12.476	-2.205	31.898	1.00	11.57
ATOM	6716	CE1	PRO	1297	-14.132	-2.593	33.891	1.00	10.32
ATOM	6717	CE2	PRO	1297	-13.634	-1.513	31.840	1.00	13.16
ATOM	6718	CZ	PRO	1297	-14.633	-1.706	32.841	1.00	12.32
ATOM	6719	C	PRO	1297	-8.956	-4.698	34.340	1.00	10.73
ATOM	6720	O	PRO	1297	-8.757	-5.968	34.318	1.00	10.33
ATOM	6721	N	GLU	1298	-7.931	-3.827	33.998	1.00	10.95
ATOM	6722	CA	GLU	1298	-6.997	-4.265	33.799	1.00	12.53
ATOM	6723	CB	GLU	1298	-5.736	-3.091	33.353	1.00	16.83
ATOM	6724	CG	GLU	1298	-4.361	-3.499	32.848	1.00	24.35
ATOM	6725	CD	GLU	1298	-4.377	-3.908	31.382	1.00	28.25
ATOM	6726	OE1	GLU	1298	-5.089	-4.875	31.025	1.00	30.56
ATOM	6727	OE2	GLU	1298	-3.631	-3.248	30.576	1.00	33.57
ATOM	6728	C	GLU	1298	-5.990	-4.913	35.036	1.00	11.29
ATOM	6729	O	GLU	1298	-5.396	-5.989	34.951	1.00	10.65

ATOM	6730	N	ASN	1299	-6.136	-4.174	36.196	1.00	10.85
ATOM	6731	CA	ASN	1299	-5.952	-4.838	37.414	1.00	11.27
ATOM	6732	CB	ASN	1299	-5.470	-3.769	38.511	1.00	11.38
ATOM	6733	C	ASN	1299	-4.544	-2.671	39.131	1.00	11.65
ATOM	6734	CG1	ASN	1299	-3.460	-1.831	39.566	1.00	13.05
ATOM	6735	ND1	ASN	1299	-4.944	-1.389	38.413	1.00	13.47
ATOM	6736	O	ASN	1299	-6.301	-6.670	37.905	1.00	11.75
ATOM	6737	O	ASN	1299	-5.692	-6.987	38.473	1.00	11.65
ATOM	6738	N	ALA	1300	-7.619	-6.104	37.731	1.00	11.62
ATOM	6739	CA	ALA	1300	-8.384	-7.281	38.095	1.00	9.92
ATOM	6740	CB	ALA	1300	-9.864	-7.011	37.911	1.00	11.63
ATOM	6741	C	ALA	1300	-7.927	-5.438	37.209	1.00	9.32
ATOM	6742	O	ALA	1300	-7.723	-8.532	37.688	1.00	11.63
ATOM	6743	N	ALA	1301	-7.745	-3.716	35.918	1.00	9.27
ATOM	6744	CA	ALA	1301	-7.323	-4.245	35.033	1.00	10.11
ATOM	6745	CB	ALA	1301	-7.226	-5.749	34.541	1.00	8.32
ATOM	6746	C	ALA	1301	-5.981	-6.835	35.492	1.00	10.42
ATOM	6747	O	ALA	1301	-5.794	-11.039	35.523	1.00	10.44
ATOM	6748	N	THR	1302	-5.955	-8.336	35.873	1.00	10.18
ATOM	6749	CA	THR	1302	-3.729	-6.378	36.312	1.00	10.80
ATOM	6750	CB	THR	1302	-2.933	-6.149	36.743	1.00	11.76
ATOM	6751	CG1	THR	1302	-2.586	-6.317	35.632	1.00	12.59
ATOM	6752	CG2	THR	1302	-1.479	-6.703	37.260	1.00	11.04
ATOM	6753	C	THR	1302	-3.801	-1.335	37.457	1.00	10.37
ATOM	6754	O	THR	1302	-3.177	-11.433	37.391	1.00	10.85
ATOM	6755	N	VAL	1303	-4.565	-11.071	38.502	1.00	9.66
ATOM	6756	CA	VAL	1303	-4.621	-13.941	38.630	1.00	9.50
ATOM	6757	CB	VAL	1303	-5.111	-16.277	40.894	1.00	13.96
ATOM	6758	CG1	VAL	1303	-4.903	-13.175	41.085	1.00	18.44
ATOM	6759	CG2	VAL	1303	-4.326	-11.941	41.091	1.00	11.75
ATOM	6760	C	VAL	1303	-5.44	-11.293	39.358	1.00	10.29
ATOM	6761	O	VAL	1303	-5.187	-13.312	39.955	1.00	8.82
ATOM	6762	N	MET	1304	-6.411	-13.143	33.453	1.00	13.19
ATOM	6763	CA	MET	1304	-7.217	-11.331	33.069	1.00	13.39
ATOM	6764	CB	MET	1304	-6.131	-11.844	37.271	1.00	13.83
ATOM	6765	CG	MET	1304	-9.483	-11.063	37.951	1.00	18.80
ATOM	6766	SD	MET	1304	-10.483	-13.032	39.699	1.00	21.49
ATOM	6767	CE	MET	1304	-11.593	-11.377	37.916	1.00	17.14
ATOM	6768	C	MET	1304	-6.34	-13.277	37.254	1.00	11.47
ATOM	6769	O	MET	1304	-6.306	-13.443	37.462	1.00	11.55
ATOM	6770	N	ARG	1305	-5.547	-11.716	36.323	1.00	11.47
ATOM	6771	CA	ARG	1305	-4.673	-13.603	33.514	1.00	9.90
ATOM	6772	CB	ARG	1305	-3.973	-11.805	34.441	1.00	9.95
ATOM	6773	CG	ARG	1305	-4.803	-11.134	33.373	1.00	13.47
ATOM	6774	CD	ARG	1305	-4.901	-11.890	32.131	1.00	13.07
ATOM	6775	NE	ARG	1305	-4.981	-11.032	31.212	1.00	16.31
ATOM	6776	CZ	ARG	1305	-4.893	-19.674	31.343	1.00	17.19
ATOM	6777	ND1	ARG	1305	-4.161	-18.314	32.317	1.00	15.95
ATOM	6778	ND2	ARG	1305	-5.683	-18.303	30.506	1.00	16.90
ATOM	6779	C	ARG	1305	-3.84	-19.170	33.411	1.00	11.73
ATOM	6780	O	ARG	1305	-3.161	-19.370	33.133	1.00	12.38
ATOM	6781	N	ALA	1306	-3.514	-13.634	35.519	1.00	9.69
ATOM	6782	CA	ALA	1306	-2.347	-13.166	38.449	1.00	11.44
ATOM	6783	CB	ALA	1306	-1.567	-13.364	39.321	1.00	11.34
ATOM	6784	C	ALA	1306	-2.119	-13.173	39.319	1.00	11.44
ATOM	6785	O	ALA	1306	-2.171	-13.363	40.313	1.00	12.32
ATOM	6786	N	GLY	1307	-4.173	-13.343	39.297	1.00	12.27
ATOM	6787	CA	GLY	1307	-4.82	-13.319	40.015	1.00	13.76
ATOM	6788	C	GLY	1307	-6.098	-13.235	40.810	1.00	13.42
ATOM	6789	O	GLY	1307	-6.917	-13.176	41.345	1.00	14.10
ATOM	6790	N	ALA	1308	-6.481	-13.309	40.964	1.00	11.75
ATOM	6791	CA	ALA	1308	-7.690	-13.419	41.706	1.00	12.50
ATOM	6792	CB	ALA	1308	-7.653	-13.144	42.065	1.00	12.41
ATOM	6793	C	ALA	1308	-8.964	-13.939	40.958	1.00	12.62
ATOM	6794	O	ALA	1308	-9.607	-13.996	39.725	1.00	12.19
ATOM	6795	N	ASN	1309	-10.658	-13.165	41.715	1.00	12.53
ATOM	6796	CA	ASN	1309	-11.368	-13.466	41.158	1.00	13.45
ATOM	6797	CB	ASN	1309	-12.040	-13.631	41.852	1.00	14.86
ATOM	6798	CG	ASN	1309	-11.149	-13.934	41.369	1.00	15.09
ATOM	6799	CD1	ASN	1309	-10.899	-19.449	40.682	1.00	16.19
ATOM	6800	ND2	ASN	1309	-10.852	-19.417	40.926	1.00	12.60
ATOM	6801	C	ASN	1309	-12.388	-15.771	41.323	1.00	13.77
ATOM	6802	O	ASN	1309	-13.353	-15.709	40.719	1.00	14.80
ATOM	6803	N	MET	1310	-11.870	-14.832	41.165	1.00	13.61
ATOM	6804	CA	MET	1310	-12.687	-13.165	42.491	1.00	12.31
ATOM	6805	CB	MET	1310	-13.708	-13.584	43.562	1.00	14.22
ATOM	6806	CG	MET	1310	-14.634	-12.499	44.992	1.00	17.85

ATOM	8807	CH	MET	1310	-15.747	-1.189	44.340	1.00	20.99
ATOM	8808	CH	MET	1310	-17.324	-1.197	44.344	1.00	22.97
ATOM	8809	C	MET	1310	-11.794	-1.291	43.016	1.00	12.24
ATOM	8810	O	MET	1310	-13.737	-1.394	43.585	1.00	11.69
ATOM	8811	N	VAL	1311	-12.237	-1.815	42.818	1.00	12.28
ATOM	8812	CA	VAL	1311	-11.466	-1.666	43.372	1.00	17.29
ATOM	8813	CH	VAL	1311	-11.215	-1.728	42.988	1.00	15.81
ATOM	8814	CO1	VAL	1311	-10.651	-1.431	42.568	1.00	19.73
ATOM	8815	CO2	VAL	1311	-10.253	-1.393	41.166	1.00	18.21
ATOM	8816	C	VAL	1311	-12.234	-1.933	44.360	1.00	17.00
ATOM	8817	O	VAL	1311	-13.462	-1.831	44.363	1.00	15.49
ATOM	8818	N	LYS	1312	-11.515	-1.463	45.755	1.00	15.33
ATOM	8819	CA	LYS	1312	-12.158	-1.662	45.413	1.00	11.17
ATOM	8820	CH	LYS	1312	-11.806	-1.197	47.797	1.00	17.10
ATOM	8821	CO	LYS	1312	-12.465	-1.403	48.521	1.00	15.32
ATOM	8822	CO1	LYS	1312	-12.63	-1.211	50.197	1.00	16.16
ATOM	8823	CH	LYS	1312	-11.297	-1.392	50.527	1.00	18.97
ATOM	8824	NH	LYS	1312	-10.732	-1.084	51.351	1.00	15.88
ATOM	8825	C	LYS	1312	-11.716	-1.187	46.311	1.00	15.64
ATOM	8826	O	LYS	1312	-10.516	-1.897	46.171	1.00	15.12
ATOM	8827	N	ILE	1313	-12.680	-1.271	46.381	1.00	12.62
ATOM	8828	CA	ILE	1313	-12.383	-1.847	46.303	1.00	14.45
ATOM	8829	CH	ILE	1313	-12.602	-1.231	44.343	1.00	16.94
ATOM	8830	CO2	ILE	1313	-11.890	-1.711	43.839	1.00	19.34
ATOM	8831	CO1	ILE	1313	-14.266	-1.581	44.661	1.00	18.39
ATOM	8832	CO1	ILE	1313	-14.764	-3.013	43.343	1.00	19.90
ATOM	8833	C	ILE	1313	-13.117	-1.053	47.413	1.00	14.85
ATOM	8834	O	ILE	1313	-14.164	-3.421	47.741	1.00	13.87
ATOM	8835	N	GLU	1314	-13.483	-2.051	47.651	1.00	15.54
ATOM	8836	CA	GLU	1314	-13.647	-1.251	49.643	1.00	14.90
ATOM	8837	CH	GLU	1314	-11.641	-0.821	50.613	1.00	16.10
ATOM	8838	CO	GLU	1314	-11.692	-1.941	50.573	1.00	15.92
ATOM	8839	CO1	GLU	1314	-9.990	-1.447	51.511	1.00	18.61
ATOM	8840	CO1	GLU	1314	-9.663	-1.211	51.511	1.00	18.97
ATOM	8841	CO2	GLU	1314	-9.513	-2.231	52.356	1.00	20.17
ATOM	8842	C	GLU	1314	-13.583	-1.001	43.581	1.00	14.15
ATOM	8843	O	GLU	1314	-13.180	-1.731	47.343	1.00	16.21
ATOM	8844	N	GLY	1315	-14.983	-1.221	49.151	1.00	16.18
ATOM	8845	CA	GLY	1315	-15.703	-1.411	48.781	1.00	16.32
ATOM	8846	C	GLY	1315	-15.196	-1.191	48.891	1.00	16.99
ATOM	8847	O	GLY	1315	-15.663	-1.061	48.831	1.00	16.14
ATOM	8848	N	GLY	1315	-17.942	-1.231	48.861	1.00	16.84
ATOM	8849	CA	GLY	1315	-19.190	-2.201	48.861	1.00	18.58
ATOM	8850	C	GLY	1315	-19.954	-2.451	47.123	1.00	19.09
ATOM	8851	O	GLY	1315	-19.491	-1.921	46.221	1.00	18.98
ATOM	8852	N	GIU	1315	-21.622	-3.261	47.196	1.00	19.78
ATOM	8853	CH	GIU	1315	-21.553	-1.461	43.593	1.00	21.63
ATOM	8854	CO1	GIU	1315	-22.391	-3.651	46.301	1.00	24.13
ATOM	8855	CO2	GIU	1315	-24.221	-3.201	46.731	1.00	34.64
ATOM	8856	C	GIU	1315	-24.916	-3.581	44.544	1.00	35.84
ATOM	8857	CO1	GIU	1315	-24.374	-3.261	43.863	1.00	40.63
ATOM	8858	CO2	GIU	1315	-25.983	-5.211	43.613	1.00	38.34
ATOM	8859	C	GIU	1315	-20.943	-3.051	44.781	1.00	17.29
ATOM	8860	O	GIU	1315	-21.118	-3.711	43.641	1.00	21.56
ATOM	8861	N	THR	1316	-19.857	-3.781	44.981	1.00	15.44
ATOM	8862	CA	THR	1316	-17.611	-3.251	43.843	1.00	15.52
ATOM	8863	CH	THR	1316	-17.969	-3.141	44.391	1.00	16.44
ATOM	8864	CO	THR	1316	-16.751	-3.431	44.951	1.00	15.69
ATOM	8865	CO2	THR	1316	-15.534	-3.011	44.316	1.00	15.19
ATOM	8866	CO2	THR	1316	-14.779	-3.401	43.397	1.00	16.89
ATOM	8867	CO3	THR	1316	-15.643	-3.101	43.603	1.00	15.81
ATOM	8868	CO1	THR	1316	-16.643	-5.061	46.263	1.00	18.81
ATOM	8869	NH1	THR	1316	-15.451	-4.441	46.483	1.00	17.66
ATOM	8870	CH2	THR	1316	-13.458	-3.881	45.631	1.00	16.56
ATOM	8871	CH3	THR	1316	-13.754	-4.581	42.721	1.00	16.65
ATOM	8872	CH2	THR	1316	-13.600	-3.981	43.736	1.00	15.94
ATOM	8873	C	THR	1316	-18.557	-4.121	42.971	1.00	15.10
ATOM	8874	O	THR	1316	-18.163	-4.341	41.833	1.00	15.72
ATOM	8875	N	LEU	1319	-18.580	-2.961	43.501	1.00	15.12
ATOM	8876	CA	LEU	1319	-18.100	-1.711	42.803	1.00	14.32
ATOM	8877	CH	LEU	1319	-17.558	-0.691	43.813	1.00	15.67
ATOM	8878	CO	LEU	1319	-16.223	-1.041	44.491	1.00	15.14
ATOM	8879	CO1	LEU	1319	-15.872	-0.031	45.503	1.00	14.17
ATOM	8880	CO2	LEU	1319	-15.139	-1.143	43.423	1.00	14.65
ATOM	8881	C	LEU	1319	-19.129	-0.992	41.935	1.00	15.55
ATOM	8882	O	LEU	1319	-18.573	-0.083	41.192	1.00	16.40
ATOM	8883	N	VAL	1320	-20.593	-1.385	42.923	1.00	15.54

ATOM	8884	CA	VAL	1320	-21.446	0.700	41.134	1.00	15.61
ATOM	8885	CB	VAL	1320	-22.769	1.471	41.328	1.00	15.50
ATOM	8886	CG1	VAL	1320	-23.760	0.896	40.322	1.00	16.93
ATOM	8887	CG2	VAL	1320	-23.339	1.407	42.732	1.00	15.77
ATOM	8888	C	VAL	1320	-21.114	0.401	39.815	1.00	15.89
ATOM	8889	O	VAL	1320	-21.237	-0.740	39.375	1.00	16.31
ATOM	8890	N	LEU	1321	-20.703	1.427	39.078	1.00	15.89
ATOM	8891	CA	LEU	1321	-20.367	1.256	37.687	1.00	16.88
ATOM	8892	CB	LEU	1321	-19.982	2.691	37.638	1.00	18.47
ATOM	8893	CG	LEU	1321	-19.483	2.438	35.601	1.00	23.16
ATOM	8894	CD	LEU	1321	-19.156	3.836	34.967	1.00	21.70
ATOM	8895	CE1	LEU	1321	-18.295	4.576	35.485	1.00	23.90
ATOM	8896	CE2	LEU	1321	-19.761	4.153	33.923	1.00	21.66
ATOM	8897	C	LEU	1321	-19.212	0.265	37.509	1.00	16.08
ATOM	8898	O	LEU	1321	-19.258	-0.639	36.671	1.00	17.48
ATOM	8899	N	THR	1322	-19.180	0.311	37.223	1.00	17.47
ATOM	8900	CA	THR	1322	-17.013	-0.432	36.271	1.00	18.01
ATOM	8901	CB	THR	1322	-15.983	-0.315	36.551	1.00	18.01
ATOM	8902	CG1	THR	1322	-15.481	1.160	39.346	1.00	18.65
ATOM	8903	CG2	THR	1322	-14.807	-1.001	39.395	1.00	18.80
ATOM	8904	C	THR	1322	-17.432	-1.347	38.463	1.00	18.95
ATOM	8905	O	THR	1322	-17.064	-2.779	37.875	1.00	18.98
ATOM	8906	N	VAL	1323	-18.221	-2.133	39.501	1.00	18.13
ATOM	8907	CA	VAL	1323	-13.696	-3.433	39.594	1.00	18.28
ATOM	8908	CB	VAL	1323	-19.511	-3.509	38.107	1.00	18.17
ATOM	8909	CG1	VAL	1323	-20.152	-4.381	37.303	1.00	18.33
ATOM	8910	CG2	VAL	1323	-13.597	-5.177	42.375	1.00	18.28
ATOM	8911	C	VAL	1323	-13.537	-4.061	38.847	1.00	18.33
ATOM	8912	O	VAL	1323	-13.325	-5.203	38.226	1.00	18.70
ATOM	8913	N	GLN	1324	-20.480	-3.374	38.137	1.00	18.37
ATOM	8914	CA	GLN	1324	-21.322	-3.740	37.339	1.00	19.20
ATOM	8915	CB	GLN	1324	-22.300	-2.640	36.309	1.00	16.72
ATOM	8916	CG	GLN	1324	-23.292	-2.214	37.882	1.00	22.21
ATOM	8917	CD	GLN	1324	-24.211	-1.098	37.344	1.00	24.87
ATOM	8918	CE1	GLN	1324	-23.761	-0.111	36.646	1.00	26.46
ATOM	8919	CE2	GLN	1324	-25.494	-1.212	37.352	1.00	27.32
ATOM	8920	C	GLN	1324	-20.460	-4.143	35.850	1.00	15.72
ATOM	8921	O	GLN	1324	-20.617	-5.205	35.304	1.00	14.44
ATOM	8922	N	MET	1325	-19.536	-3.273	35.369	1.00	14.94
ATOM	8923	CA	MET	1325	-18.670	-3.573	34.334	1.00	14.16
ATOM	8924	CB	MET	1325	-17.942	-2.321	35.332	1.00	15.53
ATOM	8925	CG	MET	1325	-18.877	-1.166	33.384	1.00	16.17
ATOM	8926	SD	MET	1325	-17.961	-0.267	32.829	1.00	16.88
ATOM	8927	SE	MET	1325	-17.729	-0.079	31.088	1.00	21.14
ATOM	8928	C	MET	1325	-17.688	-4.684	34.558	1.00	15.07
ATOM	8929	O	MET	1325	-17.438	-5.465	33.639	1.00	11.98
ATOM	8930	N	LEU	1326	-17.127	-4.809	35.737	1.00	12.81
ATOM	8931	CA	LEU	1326	-16.213	-5.919	36.000	1.00	15.29
ATOM	8932	CB	LEU	1326	-15.616	-5.335	37.417	1.00	15.67
ATOM	8933	CG	LEU	1326	-14.431	-4.908	37.974	1.00	14.23
ATOM	8934	CD1	LEU	1326	-14.130	-4.669	36.644	1.00	15.52
ATOM	8935	CD2	LEU	1326	-13.223	-5.438	36.815	1.00	13.49
ATOM	8936	C	LEU	1326	-16.961	-7.235	34.664	1.00	15.09
ATOM	8937	O	LEU	1326	-16.477	-8.177	33.219	1.00	17.34
ATOM	8938	N	THR	1327	-18.159	-7.292	36.335	1.00	15.39
ATOM	8939	CA	THR	1327	-14.950	-8.466	36.410	1.00	17.21
ATOM	8940	CB	THR	1327	-20.317	-3.284	35.111	1.00	19.12
ATOM	8941	CG1	THR	1327	-20.041	-3.075	38.333	1.00	22.09
ATOM	8942	CG2	THR	1327	-21.203	-2.530	37.120	1.00	21.12
ATOM	8943	C	THR	1327	-19.331	-8.944	34.959	1.00	17.87
ATOM	8944	O	THR	1327	-19.200	-10.123	34.675	1.00	15.79
ATOM	8945	N	GLU	1328	-19.765	-8.018	34.146	1.00	19.35
ATOM	8946	CA	GLU	1328	-20.110	-8.417	32.787	1.00	19.92
ATOM	8947	CB	GLU	1328	-20.951	-7.330	32.164	1.00	24.09
ATOM	8948	CG	GLU	1328	-20.189	-6.213	31.431	1.00	25.04
ATOM	8949	CD	GLU	1328	-21.115	-5.173	30.854	1.00	23.39
ATOM	8950	CE1	GLU	1328	-22.192	-5.550	30.106	1.00	27.41
ATOM	8951	CE2	GLU	1328	-20.782	-3.955	30.916	1.00	21.37
ATOM	8952	C	GLU	1328	-18.863	-8.769	31.971	1.00	20.62
ATOM	8953	O	GLU	1328	-18.953	-9.545	30.882	1.00	22.83
ATOM	8954	N	ARG	1329	-17.692	-8.442	32.516	1.00	18.60
ATOM	8955	CA	ARG	1329	-16.425	-8.760	31.850	1.00	16.07
ATOM	8956	CB	ARG	1329	-15.499	-7.539	31.903	1.00	15.66
ATOM	8957	CG	ARG	1329	-15.916	-6.473	30.899	1.00	12.22
ATOM	8958	CD	ARG	1329	-15.278	-5.096	31.121	1.00	15.51
ATOM	8959	NE	ARG	1329	-15.805	-4.147	30.144	1.00	11.85
ATOM	8960	CZ	ARG	1329	-17.075	-3.748	30.096	1.00	13.40

ATOM	8961	NH1	ARG	1329	-17.847	-4.766	39.680	1.00	13.04
ATOM	8962	NH1	ARG	1329	-17.486	-3.723	39.133	1.00	11.13
ATOM	8963	C	ARG	1329	-15.737	-9.986	37.494	1.00	16.04
ATOM	8964	O	ARG	1329	-14.508	-15.111	37.360	1.00	15.66
ATOM	8965	N	ALA	1330	-16.541	-10.872	37.077	1.00	15.39
ATOM	8966	CA	ALA	1330	-16.660	-13.129	37.078	1.00	14.36
ATOM	8967	CB	ALA	1330	-15.212	-12.837	37.656	1.00	14.48
ATOM	8968	C	ALA	1330	-15.306	-12.070	35.034	1.00	14.83
ATOM	8969	O	ALA	1330	-14.635	-13.053	35.409	1.00	14.81
ATOM	8970	N	VAL	1331	-15.359	-10.929	35.679	1.00	15.56
ATOM	8971	CA	VAL	1331	-14.678	-13.779	36.951	1.00	14.03
ATOM	8972	CB	VAL	1331	-13.735	-9.536	36.976	1.00	14.53
ATOM	8973	CG1	VAL	1331	-13.436	-9.336	38.390	1.00	17.64
ATOM	8974	CG2	VAL	1331	-12.653	-9.736	35.853	1.00	17.69
ATOM	8975	C	VAL	1331	-15.657	-10.632	38.117	1.00	13.93
ATOM	8976	O	VAL	1331	-16.149	-9.659	38.133	1.00	17.10
ATOM	8977	N	PRO	1332	-15.779	-11.716	38.916	1.00	14.67
ATOM	8978	CD	PRO	1332	-15.033	-13.039	38.770	1.00	17.30
ATOM	8979	CA	PRO	1332	-16.106	-11.638	40.074	1.00	13.17
ATOM	8980	CB	PRO	1332	-16.738	-13.077	40.573	1.00	17.87
ATOM	8981	CG	PRO	1332	-16.000	-13.673	40.115	1.00	20.11
ATOM	8982	C	PRO	1332	-16.111	-10.634	41.100	1.00	17.33
ATOM	8983	O	PRO	1332	-14.836	-10.616	41.268	1.00	11.73
ATOM	8984	N	VAL	1333	-16.076	-9.966	41.784	1.00	12.33
ATOM	8985	CA	VAL	1333	-16.002	-8.941	42.752	1.00	11.47
ATOM	8986	CB	VAL	1333	-16.896	-7.561	42.311	1.00	10.59
ATOM	8987	CG1	VAL	1333	-16.465	-6.531	43.378	1.00	12.38
ATOM	8988	CG2	VAL	1333	-16.128	-7.235	40.987	1.00	19.00
ATOM	8989	C	VAL	1333	-17.022	-9.206	44.150	1.00	12.40
ATOM	8990	O	VAL	1333	-18.176	-8.581	44.346	1.00	13.50
ATOM	8991	N	CYS	1334	-16.145	-8.987	45.122	1.00	11.49
ATOM	8992	CA	CYS	1334	-16.515	-9.042	46.524	1.00	15.09
ATOM	8993	CB	CYS	1334	-15.561	-8.988	47.294	1.00	14.71
ATOM	8994	SG	CYS	1334	-15.827	-9.940	49.091	1.00	15.49
ATOM	8995	C	CYS	1334	-16.359	-7.637	47.015	1.00	15.99
ATOM	8996	O	CYS	1334	-15.547	-7.011	46.818	1.00	14.76
ATOM	8997	N	GLA	1335	-17.413	-7.114	47.627	1.00	14.01
ATOM	8998	CA	GLA	1335	-17.373	-5.764	48.141	1.00	13.50
ATOM	8999	C	GLA	1335	-16.126	-5.737	49.510	1.00	13.97
ATOM	9000	O	GLA	1335	-16.501	-6.802	50.101	1.00	14.54
ATOM	9001	N	HIS	1336	-16.845	-4.591	50.617	1.00	14.71
ATOM	9002	CA	HIS	1336	-15.801	-4.397	51.320	1.00	14.57
ATOM	9003	CB	HIS	1336	-14.177	-4.369	51.143	1.00	13.80
ATOM	9004	CG	HIS	1336	-15.511	-4.501	52.431	1.00	16.43
ATOM	9005	CD2	HIS	1336	-13.868	-4.166	53.697	1.00	14.97
ATOM	9006	ND1	HIS	1336	-12.199	-1.917	52.502	1.00	16.35
ATOM	9007	CE1	HIS	1336	-11.778	-4.339	53.752	1.00	17.68
ATOM	9008	NE2	HIS	1336	-12.769	-4.386	51.438	1.00	15.76
ATOM	9009	C	HIS	1336	-16.106	-3.982	51.905	1.00	14.17
ATOM	9010	O	HIS	1336	-15.852	-3.605	51.560	1.00	15.71
ATOM	9011	N	LEU	1337	-16.947	-3.019	53.010	1.00	16.18
ATOM	9012	CA	LEU	1337	-17.417	-1.855	51.662	1.00	14.41
ATOM	9013	CB	LEU	1337	-18.937	-1.717	53.569	1.00	14.97
ATOM	9014	CG	LEU	1337	-19.500	-1.315	57.119	1.00	14.78
ATOM	9015	CD1	LEU	1337	-21.012	-1.388	57.174	1.00	16.54
ATOM	9016	CD2	LEU	1337	-19.039	-0.917	51.659	1.00	15.26
ATOM	9017	C	LEU	1337	-17.074	-1.819	51.151	1.00	15.16
ATOM	9018	O	LEU	1337	-16.704	-2.815	51.579	1.00	15.49
ATOM	9019	N	GLY	1338	-17.214	-0.746	57.767	1.00	16.32
ATOM	9020	CA	GLY	1338	-16.911	-0.487	55.175	1.00	13.65
ATOM	9021	C	GLY	1338	-15.546	-0.103	57.329	1.00	20.37
ATOM	9022	O	GLY	1338	-15.244	1.169	58.779	1.00	20.72
ATOM	9023	N	LEU	1339	-14.692	-0.592	58.071	1.00	21.08
ATOM	9024	CA	LEU	1339	-13.328	-0.170	58.274	1.00	21.80
ATOM	9025	CB	LEU	1339	-12.760	-0.690	59.586	1.00	22.66
ATOM	9026	CG	LEU	1339	-11.626	-0.069	60.275	1.00	26.11
ATOM	9027	CD1	LEU	1339	-11.099	-0.714	61.475	1.00	25.17
ATOM	9028	CD2	LEU	1339	-10.518	0.410	59.290	1.00	25.89
ATOM	9029	C	LEU	1339	-12.100	-0.633	57.096	1.00	21.67
ATOM	9030	O	LEU	1339	-12.007	-1.762	57.168	1.00	21.16
ATOM	9031	N	THR	1340	-12.786	-0.205	56.070	1.00	21.68
ATOM	9032	CA	THR	1340	-11.618	-0.104	54.864	1.00	22.67
ATOM	9033	CP	THR	1340	-12.501	-0.507	53.621	1.00	23.97
ATOM	9034	CG1	THR	1340	-12.526	1.906	53.842	1.00	23.55
ATOM	9035	CG2	THR	1340	-13.641	-0.169	53.375	1.00	26.26
ATOM	9036	C	THR	1340	-10.262	-0.510	55.053	1.00	20.26
ATOM	9037	O	THR	1340	-10.057	1.715	54.899	1.00	23.50

ATOM	9038	H	PRO	1341	-9.226	-0.323	55.372	1.00	20.57
ATOM	9039	CI	PRO	1341	-9.300	-1.794	55.427	1.00	21.43
ATOM	9040	CA	PRO	1341	-7.842	0.114	55.603	1.00	19.00
ATOM	9041	CP	PRO	1341	-7.991	-1.235	55.901	1.00	22.57
ATOM	9042	CG	PRO	1341	-7.381	-2.171	54.878	1.00	25.73
ATOM	9043	C	PRO	1341	-7.110	1.019	54.570	1.00	18.31
ATOM	9044	O	PRO	1341	-6.732	1.832	54.828	1.00	18.10
ATOM	9045	N	GLN	1342	-7.771	0.845	53.799	1.00	17.90
ATOM	9046	CA	GLN	1342	-6.734	1.751	50.204	1.00	18.59
ATOM	9047	CB	GLN	1342	-7.132	1.355	50.381	1.00	18.19
ATOM	9048	CG	GLN	1342	-6.732	0.124	50.316	1.00	17.70
ATOM	9049	CD	GLN	1342	-7.765	-0.407	49.937	1.00	18.63
ATOM	9050	CE1	GLN	1342	-7.781	0.380	49.266	1.00	21.48
ATOM	9051	NE2	GLN	1342	-7.710	-1.725	48.888	1.00	21.70
ATOM	9052	C	GLN	1342	-7.775	1.235	51.539	1.00	18.46
ATOM	9053	O	GLN	1342	-6.475	3.113	51.189	1.00	23.77
ATOM	9054	N	SER	1343	-8.787	1.513	51.207	1.00	20.86
ATOM	9055	CA	SER	1343	-8.684	1.913	52.538	1.00	21.17
ATOM	9056	CB	SER	1343	-10.110	1.164	51.333	1.00	23.94
ATOM	9057	CG	SER	1343	-10.774	3.937	51.708	1.00	23.54
ATOM	9058	C	SER	1343	-8.787	1.261	51.707	1.00	21.43
ATOM	9059	O	SER	1343	-8.784	4.009	51.831	1.00	20.45
ATOM	9060	N	VAL	1344	-8.777	3.612	50.348	1.00	20.55
ATOM	9061	CA	VAL	1344	-8.862	1.911	50.849	1.00	21.71
ATOM	9062	CB	VAL	1344	-8.852	4.060	51.071	1.00	23.85
ATOM	9063	CG1	VAL	1344	-11.779	3.379	50.551	1.00	21.50
ATOM	9064	CG2	VAL	1344	-8.691	4.381	51.711	1.00	23.91
ATOM	9065	C	VAL	1344	-8.161	6.338	52.007	1.00	23.37
ATOM	9066	O	VAL	1344	-8.807	6.960	51.114	1.00	23.26
ATOM	9067	N	ASN	1345	-8.323	7.008	50.641	1.00	23.04
ATOM	9068	CA	ASN	1345	-8.866	5.408	50.113	1.00	23.39
ATOM	9069	CB	ASN	1345	-11.885	8.845	51.904	1.00	23.81
ATOM	9070	CG	ASN	1345	-8.334	8.103	55.006	1.00	23.35
ATOM	9071	CD1	ASN	1345	-11.500	8.283	55.988	1.00	24.07
ATOM	9072	ND2	ASN	1345	-8.103	1.348	51.043	1.00	23.65
ATOM	9073	C	ASN	1345	-8.849	8.118	50.111	1.00	23.24
ATOM	9074	O	ASN	1345	-8.816	11.465	50.838	1.00	23.81
ATOM	9075	N	ILE	1346	-10.963	1.813	50.134	1.00	23.67
ATOM	9076	CA	ILE	1346	-10.879	3.881	51.477	1.00	23.69
ATOM	9077	CB	ILE	1346	-10.115	6.842	51.347	1.00	23.22
ATOM	9078	CG2	ILE	1346	-11.111	9.193	51.536	1.00	23.45
ATOM	9079	CG1	ILE	1346	-10.884	8.111	51.001	1.00	23.82
ATOM	9080	CD1	ILE	1346	-10.846	11.848	52.513	1.00	23.54
ATOM	9081	C	ILE	1346	-10.847	9.534	50.870	1.00	23.88
ATOM	9082	O	ILE	1346	-10.821	11.845	50.337	1.00	23.66
ATOM	9083	N	PHE	1347	-8.896	8.351	50.467	1.00	23.33
ATOM	9084	CA	PHE	1347	-10.713	8.133	50.330	1.00	23.79
ATOM	9085	CB	PHE	1347	-10.815	6.767	50.036	1.00	23.55
ATOM	9086	CG	PHE	1347	-11.002	8.015	50.941	1.00	23.41
ATOM	9087	CD1	PHE	1347	-11.751	6.707	50.391	1.00	23.50
ATOM	9088	CD2	PHE	1347	-11.349	4.706	50.578	1.00	23.68
ATOM	9089	CE1	PHE	1347	-11.115	6.093	50.898	1.00	23.26
ATOM	9090	CE2	PHE	1347	-11.103	3.109	50.507	1.00	23.11
ATOM	9091	C	PHE	1347	-11.193	4.789	50.901	1.00	23.84
ATOM	9092	O	PHE	1347	-10.609	8.003	50.912	1.00	23.03
ATOM	9093	O	PHE	1347	-10.632	8.117	61.344	1.00	23.54
ATOM	9094	N	GLY	1348	-8.719	8.851	59.609	1.00	23.77
ATOM	9095	CA	GLY	1348	-10.367	8.191	60.615	1.00	23.19
ATOM	9096	C	GLY	1348	-8.901	8.147	61.561	1.00	23.20
ATOM	9097	O	GLY	1348	-8.574	8.361	62.679	1.00	23.33
ATOM	9098	N	GLY	1349	-10.079	8.923	61.019	1.00	23.22
ATOM	9099	CA	GLY	1349	-8.651	8.770	61.812	1.00	23.19
ATOM	9100	C	GLY	1349	-10.580	1.593	61.597	1.00	24.96
ATOM	9101	O	GLY	1349	-8.482	3.642	60.762	1.00	23.57
ATOM	9102	N	TYR	1350	-10.319	1.517	62.346	1.00	25.88
ATOM	9103	CA	TYR	1350	-8.195	3.333	62.726	1.00	26.67
ATOM	9104	CB	TYR	1350	-10.335	1.062	62.795	1.00	23.56
ATOM	9105	CG	TYR	1350	-8.210	1.048	61.271	1.00	24.85
ATOM	9106	CD1	TYR	1350	-4.989	1.643	61.542	1.00	24.85
ATOM	9107	CE1	TYR	1350	-8.969	1.661	60.592	1.00	23.99
ATOM	9108	CD2	TYR	1350	-8.406	0.463	60.017	1.00	23.83
ATOM	9109	CE2	TYR	1350	-11.389	0.423	59.054	1.00	23.92
ATOM	9110	CZ	TYR	1350	-4.177	1.079	59.350	1.00	23.88
ATOM	9111	OH	TYR	1350	-5.174	1.117	58.405	1.00	23.09
ATOM	9112	C	TYR	1350	-9.239	2.327	63.536	1.00	27.58
ATOM	9113	O	TYR	1350	-9.110	1.612	64.330	1.00	28.34
ATOM	9114	N	LYS	1351	-10.278	3.132	63.150	1.00	27.80

ATOM	9115	CA	LYS	1351	-11.349	3.254	64.122	1.00	37.85
ATOM	9116	CB	LYS	1351	-11.650	1.738	64.354	1.00	39.96
ATOM	9117	CH	LYS	1351	-10.330	5.592	64.529	1.00	41.93
ATOM	9118	CD	LYS	1351	-10.671	2.063	64.353	1.00	43.31
ATOM	9119	CE	LYS	1351	-9.373	5.863	64.220	1.00	44.78
ATOM	9120	NE	LYS	1351	-8.036	6.198	64.846	1.00	44.37
ATOM	9121	C	VAL	1351	-12.677	1.531	64.643	1.00	37.31
ATOM	9122	O	VAL	1351	-12.800	1.313	64.144	1.00	36.49
ATOM	9123	N	VAL	1352	-13.451	1.117	64.593	1.00	36.10
ATOM	9124	CA	VAL	1352	-14.705	1.868	64.230	1.00	35.39
ATOM	9125	CB	VAL	1352	-15.433	1.110	64.559	1.00	35.76
ATOM	9126	CG1	VAL	1352	-16.731	1.330	64.240	1.00	34.39
ATOM	9127	CG2	VAL	1352	-14.788	1.111	64.531	1.00	35.77
ATOM	9128	C	VAL	1352	-15.170	1.357	64.400	1.00	34.13
ATOM	9129	O	VAL	1352	-15.624	1.575	64.575	1.00	32.36
ATOM	9130	N	GLN	1353	-15.159	1.737	64.411	1.00	34.13
ATOM	9131	CA	GLN	1353	-17.111	1.463	64.573	1.00	33.62
ATOM	9132	CB	GLN	1353	-16.683	1.214	64.082	1.00	33.10
ATOM	9133	CG	GLN	1353	-16.133	1.503	64.289	1.00	33.90
ATOM	9134	CD	GLN	1353	-15.353	1.407	64.920	1.00	37.11
ATOM	9135	OE1	GLN	1353	-13.139	1.347	64.495	1.00	39.31
ATOM	9136	NE2	GLN	1353	-15.656	1.707	64.339	1.00	39.06
ATOM	9137	C	GLN	1353	-13.768	1.937	64.678	1.00	37.00
ATOM	9138	O	GLN	1353	-13.839	1.906	62.289	1.00	32.10
ATOM	9139	N	GLY	1354	-13.497	1.819	64.173	1.00	32.11
ATOM	9140	CA	GLY	1354	-20.990	1.443	64.207	1.00	31.69
ATOM	9141	C	GLY	1354	-21.624	2.931	64.473	1.00	31.83
ATOM	9142	O	GLY	1354	-23.831	1.658	64.634	1.00	33.12
ATOM	9143	N	ARG	1355	-20.112	1.646	64.317	1.00	33.73
ATOM	9144	CA	ARG	1355	-21.593	1.168	64.538	1.00	33.71
ATOM	9145	CB	ARG	1355	-20.427	1.510	64.573	1.00	36.12
ATOM	9146	CG	ARG	1355	-19.601	1.467	64.116	1.00	37.49
ATOM	9147	CD	ARG	1355	-19.633	1.536	64.636	1.00	37.53
ATOM	9148	NE	ARG	1355	-18.923	1.411	64.166	1.00	38.17
ATOM	9149	CZ	ARG	1355	-15.691	1.173	64.105	1.00	37.63
ATOM	9150	NH1	ARG	1355	-16.814	1.106	64.737	1.00	38.36
ATOM	9151	NH2	ARG	1355	-17.367	1.313	64.195	1.00	38.10
ATOM	9152	C	ARG	1355	-21.141	1.553	64.111	1.00	34.38
ATOM	9153	O	ARG	1355	-21.777	1.736	64.601	1.00	33.17
ATOM	9154	N	GLY	1356	-23.633	1.747	64.631	1.00	33.13
ATOM	9155	CA	GLY	1356	-24.433	1.553	64.168	1.00	34.39
ATOM	9156	C	GLY	1356	-25.633	1.500	64.816	1.00	34.36
ATOM	9157	O	GLY	1356	-25.343	1.744	64.136	1.00	37.09
ATOM	9158	N	ASP	1357	-26.793	1.741	64.131	1.00	35.64
ATOM	9159	CA	ASP	1357	-25.739	1.479	64.157	1.00	35.93
ATOM	9160	CB	ASP	1357	-26.619	1.737	64.156	1.00	38.36
ATOM	9161	CG	ASP	1357	-26.677	1.661	64.863	1.00	39.10
ATOM	9162	OD1	ASP	1357	-26.681	1.547	64.194	1.00	41.41
ATOM	9163	OD2	ASP	1357	-30.013	1.704	64.634	1.00	42.41
ATOM	9164	C	ASP	1357	-27.770	1.550	64.113	1.00	37.60
ATOM	9165	O	ASP	1357	-25.444	1.732	59.911	1.00	34.09
ATOM	9166	N	GLU	1358	-26.719	1.731	64.173	1.00	34.82
ATOM	9167	CA	GLU	1358	-26.157	1.617	59.439	1.00	31.36
ATOM	9168	CB	GLU	1358	-27.781	1.833	59.511	1.00	37.82
ATOM	9169	CG	GLU	1358	-25.173	1.630	59.103	1.00	41.10
ATOM	9170	CD	GLU	1358	-24.834	1.732	59.167	1.00	43.18
ATOM	9171	OE1	GLU	1358	-23.673	1.737	59.743	1.00	45.33
ATOM	9172	OE2	GLU	1358	-21.681	1.736	59.061	1.00	47.15
ATOM	9173	C	GLU	1358	-23.793	1.784	59.319	1.00	41.13
ATOM	9174	O	GLU	1358	-23.190	1.739	59.052	1.00	39.54
ATOM	9175	N	ALA	1359	-24.705	1.718	59.019	1.00	28.81
ATOM	9176	CA	ALA	1359	-25.141	1.637	59.162	1.00	26.73
ATOM	9177	CB	ALA	1359	-21.073	1.231	60.113	1.00	27.62
ATOM	9178	C	ALA	1359	-23.634	1.631	59.887	1.00	25.02
ATOM	9179	O	ALA	1359	-23.114	1.381	59.910	1.00	25.54
ATOM	9180	N	GLY	1360	-24.191	1.183	59.719	1.00	22.96
ATOM	9181	CA	GLY	1360	-25.191	1.171	59.006	1.00	22.42
ATOM	9182	C	GLY	1360	-26.036	1.076	59.159	1.00	23.33
ATOM	9183	O	GLY	1360	-25.874	1.143	59.552	1.00	21.76
ATOM	9184	N	ASP	1361	-26.930	1.029	58.173	1.00	23.30
ATOM	9185	CA	ASP	1361	-27.809	1.035	57.010	1.00	24.90
ATOM	9186	CB	ASP	1361	-28.776	1.142	57.081	1.00	25.13
ATOM	9187	CG	ASP	1361	-29.778	1.109	58.211	1.00	25.96
ATOM	9188	OD1	ASP	1361	-30.037	1.963	58.634	1.00	24.04
ATOM	9189	OD2	ASP	1361	-30.312	1.148	58.662	1.00	26.75
ATOM	9190	C	ASP	1361	-27.001	1.128	55.715	1.00	24.67
ATOM	9191	O	ASP	1361	-27.418	1.199	54.682	1.00	23.97

ATOM	9193	N	GLN	1362	-13.843	4.775	54.762	1.00	23.06
ATOM	9194	CA	GLN	1362	-13.021	4.882	54.503	1.00	23.44
ATOM	9194	CB	GLN	1362	-23.893	5.996	54.762	1.00	23.04
ATOM	9195	CG	GLN	1362	-23.177	6.176	53.474	1.00	23.55
ATOM	9196	CD	GLN	1362	-24.113	6.925	52.464	1.00	24.06
ATOM	9197	OE1	GLN	1362	-24.753	7.333	52.760	1.00	23.96
ATOM	9198	NE2	GLN	1362	-24.195	6.345	51.266	1.00	23.63
ATOM	9199	O	GLN	1362	-24.439	3.519	54.194	1.00	23.54
ATOM	9200	O	GLN	1362	-24.439	3.157	53.019	1.00	23.64
ATOM	9201	N	LEU	1363	-23.964	2.764	55.190	1.00	24.10
ATOM	9202	CA	LEU	1363	-23.413	1.441	54.932	1.00	25.78
ATOM	9203	CB	LEU	1363	-22.810	0.131	56.214	1.00	27.37
ATOM	9204	CG	LEU	1363	-21.433	1.337	55.715	1.00	31.02
ATOM	9205	CD1	LEU	1363	-21.073	0.539	57.448	1.00	29.46
ATOM	9206	CD2	LEU	1363	-20.436	1.194	55.628	1.00	30.13
ATOM	9207	O	LEU	1363	-21.433	0.133	54.454	1.00	27.61
ATOM	9208	O	LEU	1363	-24.136	-0.115	53.478	1.00	23.86
ATOM	9209	N	LEU	1364	-25.633	-0.416	51.765	1.00	23.26
ATOM	9210	CA	LEU	1364	-25.630	-0.433	51.436	1.00	23.78
ATOM	9211	CB	LEU	1364	-27.940	-0.170	55.455	1.00	29.25
ATOM	9211	CG	LEU	1364	-24.877	-1.137	55.466	1.00	30.43
ATOM	9211	CD1	LEU	1364	-23.951	-1.133	56.470	1.00	33.01
ATOM	9214	CD2	LEU	1364	-23.438	-1.709	54.117	1.00	31.12
ATOM	9215	O	LEU	1364	-26.936	-0.041	53.330	1.00	23.12
ATOM	9216	O	LEU	1364	-27.114	-0.663	52.180	1.00	21.75
ATOM	9217	N	SEP	1365	-27.041	1.116	52.743	1.00	24.25
ATOM	9218	CA	SEP	1365	-27.337	1.636	51.399	1.00	23.74
ATOM	9219	CB	SEP	1365	-25.440	3.026	51.383	1.00	23.49
ATOM	9220	OG	SEP	1365	-27.711	3.721	50.085	1.00	30.28
ATOM	9222	C	SEP	1365	-26.248	1.221	50.436	1.00	29.66
ATOM	9222	O	SEP	1365	-26.541	0.231	49.443	1.00	17.79
ATOM	9223	N	ASF	1366	-27.033	1.237	53.741	1.00	19.94
ATOM	9224	CA	ASF	1366	-27.962	3.571	53.313	1.00	18.22
ATOM	9225	CB	ASF	1366	-27.564	1.383	54.045	1.00	19.61
ATOM	9226	CG	ASF	1366	-25.234	2.190	53.153	1.00	20.36
ATOM	9227	OD1	ASF	1366	-25.831	1.153	48.352	1.00	20.14
ATOM	9228	OD2	ASF	1366	-21.538	3.273	51.384	1.00	19.72
ATOM	9229	C	ASF	1366	-23.914	-0.117	49.423	1.00	16.59
ATOM	9230	O	ASF	1366	-25.643	-1.031	48.723	1.00	11.02
ATOM	9231	N	ALA	1367	-24.216	-1.731	53.363	1.00	11.72
ATOM	9232	CA	ALA	1367	-24.234	-2.733	53.363	1.00	16.03
ATOM	9233	CB	ALA	1367	-24.538	-1.532	52.116	1.00	16.32
ATOM	9234	C	ALA	1367	-27.245	-1.211	49.717	1.00	17.68
ATOM	9235	O	ALA	1367	-24.941	-1.632	48.723	1.00	15.30
ATOM	9236	N	LEU	1368	-24.436	-2.538	48.745	1.00	16.53
ATOM	9237	CA	LEU	1368	-27.433	-2.932	48.359	1.00	25.83
ATOM	9238	CB	LEU	1368	-26.775	-2.211	48.111	1.00	17.90
ATOM	9239	CG	LEU	1368	-26.457	-2.073	50.163	1.00	18.04
ATOM	9241	CD1	LEU	1368	-26.411	-1.771	50.310	1.00	21.56
ATOM	9241	CD2	LEU	1368	-26.127	-1.033	48.351	1.00	18.80
ATOM	9242	O	LEU	1368	-27.003	-1.477	47.363	1.00	15.44
ATOM	9243	O	LEU	1368	-27.509	-3.213	47.363	1.00	17.08
ATOM	9244	N	ALA	1369	-26.417	-1.533	47.163	1.00	15.14
ATOM	9245	CA	ALA	1369	-23.963	-0.781	47.063	1.00	15.71
ATOM	9246	CB	ALA	1369	-25.293	-0.603	47.163	1.00	16.16
ATOM	9247	O	ALA	1369	-24.843	-1.714	47.163	1.00	15.06
ATOM	9248	O	ALA	1369	-24.909	-1.963	47.163	1.00	13.93
ATOM	9249	N	LEU	1370	-24.017	-2.201	47.163	1.00	15.36
ATOM	9250	CA	LEU	1370	-22.990	-3.163	47.163	1.00	15.17
ATOM	9251	CB	LEU	1370	-21.967	-3.389	47.163	1.00	17.64
ATOM	9252	CG	LEU	1370	-21.115	-2.133	47.231	1.00	17.64
ATOM	9253	CD1	LEU	1370	-20.257	-2.510	48.453	1.00	14.36
ATOM	9254	CD2	LEU	1370	-20.236	-1.745	47.672	1.00	17.55
ATOM	9255	C	LEU	1370	-23.639	-4.395	45.124	1.00	16.16
ATOM	9256	O	LEU	1370	-23.366	-4.917	44.160	1.00	14.48
ATOM	9257	N	GLU	1371	-24.573	-4.911	47.120	1.00	15.63
ATOM	9258	CA	GLU	1371	-25.269	-6.141	47.147	1.00	16.46
ATOM	9259	CB	GLU	1371	-26.264	-6.540	46.745	1.00	17.16
ATOM	9260	CG	GLU	1371	-27.124	-7.735	46.381	1.00	20.10
ATOM	9261	CD	GLU	1371	-28.084	-8.056	47.491	1.00	19.17
ATOM	9262	OE1	GLU	1371	-28.876	-7.214	47.897	1.00	18.19
ATOM	9263	OE2	GLU	1371	-28.029	-9.248	47.964	1.00	23.87
ATOM	9264	O	GLU	1371	-26.007	-5.960	44.319	1.00	16.54
ATOM	9265	O	GLU	1371	-25.894	-6.769	43.409	1.00	16.17
ATOM	9266	N	ALA	1372	-26.757	-4.869	44.705	1.00	16.06
ATOM	9267	CA	ALA	1372	-27.516	-4.601	47.987	1.00	16.73
ATOM	9268	CB	ALA	1372	-28.354	-3.328	43.161	1.00	16.45

ATOM	9259	C	ALA	1372	-17.1585	-4.4460	41.7860	1.00	16.56
ATOM	9260	O	ALA	1372	-26.0953	-4.7791	43.6650	1.00	15.51
ATOM	9261	N	ALA	1373	-25.3777	-3.9661	42.0444	1.00	14.61
ATOM	9262	CA	ALA	1373	-24.3492	-3.7533	43.6937	1.00	14.07
ATOM	9263	CB	ALA	1373	-23.2533	-3.3533	41.5507	1.00	15.39
ATOM	9264	C	ALA	1373	-23.8031	-3.1077	40.4737	1.00	14.66
ATOM	9265	O	ALA	1373	-23.2332	-3.1333	39.3336	1.00	15.32
ATOM	9266	N	LY	1374	-23.9935	-3.1333	41.1233	1.00	14.32
ATOM	9267	CA	LY	1374	-23.4437	-3.1333	40.8136	1.00	14.74
ATOM	9268	C	LY	1374	-23.4436	-3.1333	41.7339	1.00	15.33
ATOM	9269	O	LY	1374	-23.0435	-3.1236	41.5133	1.00	17.13
ATOM	9280	N	ALA	1375	-23.0331	-3.1333	42.3333	1.00	15.33
ATOM	9281	CA	ALA	1375	-23.1337	-3.1333	43.3337	1.00	15.33
ATOM	9282	CB	ALA	1375	-23.0931	-3.1333	45.3337	1.00	12.33
ATOM	9283	C	ALA	1375	-23.0335	-3.1333	44.3333	1.00	15.33
ATOM	9284	O	ALA	1375	-23.0333	-3.1333	44.3333	1.00	17.33
ATOM	9285	N	GLN	1376	-23.0331	-3.1333	44.3333	1.00	16.03
ATOM	9286	CA	GLN	1376	-23.0331	-3.1333	44.3333	1.00	16.03
ATOM	9287	CB	GLN	1376	-23.0331	-3.1333	43.3333	1.00	16.03
ATOM	9288	CG	GLN	1376	-23.0331	-3.1333	41.3333	1.00	23.33
ATOM	9289	CD	GLN	1376	-23.0331	-3.1333	41.3333	1.00	23.33
ATOM	9290	OE1	GLN	1376	-23.0331	-3.1333	41.3333	1.00	23.33
ATOM	9291	NS2	GLN	1376	-23.0331	-3.1333	40.3333	1.00	23.33
ATOM	9292	C	GLN	1376	-23.0331	-3.1333	40.3333	1.00	17.03
ATOM	9293	O	GLN	1376	-23.0331	-3.1333	40.3333	1.00	17.03
ATOM	9294	N	LEU	1377	-20.4331	-11.1333	46.3333	1.00	13.83
ATOM	9295	CA	LEU	1377	-19.9333	-11.1333	48.3333	1.00	16.93
ATOM	9296	CB	LEU	1377	-18.6335	-11.1333	48.3333	1.00	23.23
ATOM	9297	CG	LEU	1377	-18.6335	-11.1333	48.3333	1.00	23.23
ATOM	9298	CD1	LEU	1377	-17.4331	-11.1333	48.3333	1.00	23.83
ATOM	9299	CD2	LEU	1377	-19.1333	-11.1333	48.3333	1.00	23.73
ATOM	9300	C	LEU	1377	-19.6334	-11.1333	48.3333	1.00	18.13
ATOM	9301	O	LEU	1377	-19.6334	-11.1333	48.3333	1.00	18.13
ATOM	9302	N	LEU	1378	-19.6334	-11.1333	50.3333	1.00	15.03
ATOM	9303	CA	LEU	1378	-19.6334	-11.1333	50.3333	1.00	15.23
ATOM	9304	CB	LEU	1378	-20.1333	-11.1333	51.3333	1.00	16.03
ATOM	9305	CG	LEU	1378	-20.1333	-11.1333	51.3333	1.00	16.83
ATOM	9306	CD1	LEU	1378	-19.6331	-11.1333	51.3333	1.00	13.23
ATOM	9307	CD2	LEU	1378	-21.1331	-11.1333	51.3333	1.00	16.53
ATOM	9308	C	LEU	1378	-18.6333	-11.1333	51.3333	1.00	17.83
ATOM	9309	O	LEU	1378	-18.6333	-11.1333	51.3333	1.00	16.03
ATOM	9310	N	VAL	1379	-17.5333	-11.1333	51.3333	1.00	16.13
ATOM	9311	CA	VAL	1379	-16.8333	-11.1333	51.3333	1.00	16.23
ATOM	9312	CB	VAL	1379	-15.2333	-11.1333	51.3333	1.00	13.83
ATOM	9313	CG1	VAL	1379	-14.6333	-11.1333	54.3333	1.00	13.93
ATOM	9314	CG2	VAL	1379	-14.6333	-11.1333	52.3333	1.00	13.83
ATOM	9315	C	VAL	1379	-17.1331	-11.1333	54.3333	1.00	16.23
ATOM	9316	O	VAL	1379	-17.1331	-11.1333	51.3333	1.00	13.43
ATOM	9317	N	LEU	1380	-17.6333	-11.1333	51.3333	1.00	17.13
ATOM	9318	CA	LEU	1380	-17.6333	-11.1333	56.3333	1.00	17.33
ATOM	9319	CB	LEU	1380	-19.1333	-11.1333	57.3333	1.00	23.23
ATOM	9320	CG	LEU	1380	-20.1331	-11.1333	56.3333	1.00	23.23
ATOM	9321	CD1	LEU	1380	-21.6333	-11.1333	57.3333	1.00	23.13
ATOM	9322	CD2	LEU	1380	-20.1331	-11.1333	56.3333	1.00	23.63
ATOM	9323	C	LEU	1380	-16.8331	-11.1333	57.3333	1.00	17.93
ATOM	9324	O	LEU	1380	-16.8331	-11.1333	56.3333	1.00	17.23
ATOM	9325	N	GLU	1381	-16.4333	-11.0333	57.3333	1.00	16.23
ATOM	9326	CA	GLU	1381	-15.0333	-11.0333	56.3333	1.00	18.13
ATOM	9327	CB	GLU	1381	-11.7333	-11.0333	56.3333	1.00	18.63
ATOM	9328	CG	GLU	1381	-12.1333	-11.0333	56.0437	1.00	18.53
ATOM	9329	CD	GLU	1381	-11.1334	-11.0333	56.7333	1.00	21.43
ATOM	9330	OE1	GLU	1381	-11.1333	-11.0333	55.0437	1.00	20.29
ATOM	9331	OE2	GLU	1381	-10.1332	-11.0333	56.9333	1.00	21.03
ATOM	9332	C	GLU	1381	-15.1332	-11.0333	59.9333	1.00	18.63
ATOM	9333	O	GLU	1381	-15.1331	-11.0333	59.7333	1.00	17.56
ATOM	9334	N	CYS	1382	-15.0334	-11.0333	61.2333	1.00	18.63
ATOM	9335	CA	CYS	1382	-15.1333	-11.0333	62.3333	1.00	20.13
ATOM	9336	CB	CYS	1382	-15.8333	-11.0333	62.5333	1.00	20.94
ATOM	9337	CG	CYS	1382	-12.4334	-11.0333	62.8333	1.00	25.87
ATOM	9338	C	CYS	1382	-16.4334	-11.0333	62.3333	1.00	18.45
ATOM	9339	O	CYS	1382	-16.1331	-11.0333	62.1331	1.00	19.03
ATOM	9340	N	VAL	1383	-17.5333	-11.0333	62.6331	1.00	20.89
ATOM	9341	CA	VAL	1383	-18.7333	-11.2333	62.6333	1.00	21.85
ATOM	9342	CB	VAL	1383	-19.5333	-11.4333	61.3334	1.00	23.13
ATOM	9343	CG1	VAL	1383	-20.1333	-11.7333	61.2886	1.00	18.79
ATOM	9344	CG2	VAL	1383	-20.4331	-11.2333	61.1133	1.00	26.13
ATOM	9345	C	VAL	1383	-19.5336	-11.8633	63.8039	1.00	22.33

ATOM	9347	O	VAL	13-5	-22.854	-4.042	64.141	1.00	27.64
ATOM	9347	N	PRO	13-4	-20.432	-7.050	64.454	1.00	27.79
ATOM	9348	CD	PRO	13-4	-20.747	-6.631	64.247	1.00	27.90
ATOM	9349	CA	PRO	13-4	-21.131	-2.638	65.544	1.00	28.21
ATOM	9350	CB	PRO	13-4	-22.140	-1.411	65.951	1.00	28.27
ATOM	9351	CG	PRO	13-4	-21.162	-0.556	64.733	1.00	28.51
ATOM	9352	C	PRO	13-4	-22.609	-3.941	65.101	1.00	28.41
ATOM	9353	O	PRO	13-4	-22.470	-3.414	63.961	1.00	28.74
ATOM	9354	N	VAL	13-5	-22.140	-4.408	66.603	1.00	28.71
ATOM	9355	CA	VAL	13-5	-22.856	-6.050	67.12	1.00	28.23
ATOM	9356	CB	VAL	13-5	-23.931	-6.611	66.991	1.00	27.86
ATOM	9357	CG1	VAL	13-5	-23.636	-8.161	66.631	1.00	27.76
ATOM	9358	CG2	VAL	13-5	-21.626	-7.101	67.631	1.00	28.91
ATOM	9359	C	VAL	13-5	-21.263	-5.784	67.111	1.00	27.91
ATOM	9361	O	VAL	13-5	-24.112	-6.711	61.561	1.00	27.26
ATOM	9361	N	LEU	13-6	-24.631	-4.733	67.731	1.00	27.87
ATOM	9361	CA	LEU	13-6	-26.241	-4.111	67.361	1.00	30.31
ATOM	9363	CB	LEU	13-6	-26.717	-3.113	66.111	1.00	31.45
ATOM	9364	CG	LEU	13-6	-26.142	-2.631	67.111	1.00	37.12
ATOM	9365	CD	LEU	13-6	-26.577	-4.111	66.731	1.00	39.44
ATOM	9366	CE1	LEU	13-6	-27.044	-5.051	66.711	1.00	41.31
ATOM	9367	CE2	LEU	13-6	-24.931	-4.111	66.811	1.00	40.64
ATOM	9368	C	LEU	13-6	-26.241	-4.031	65.811	1.00	39.04
ATOM	9369	O	LEU	13-6	-27.167	-4.601	65.161	1.00	39.01
ATOM	9371	N	LEU	13-7	-26.353	-3.271	65.596	1.00	27.86
ATOM	9371	CA	LEU	13-7	-25.110	-2.911	61.981	1.00	26.71
ATOM	9372	CB	LEU	13-7	-24.113	-1.871	61.731	1.00	19.35
ATOM	9373	CG	LEU	13-7	-24.497	-0.767	60.731	1.00	37.46
ATOM	9374	CD1	LEU	13-7	-24.114	0.144	60.511	1.00	19.59
ATOM	9375	CD2	LEU	13-7	-24.116	-1.164	59.111	1.00	28.91
ATOM	9376	C	LEU	13-7	-24.119	-4.144	61.111	1.00	26.32
ATOM	9377	O	LEU	13-7	-26.637	-4.138	60.661	1.00	24.85
ATOM	9378	N	ALA	13-8	-24.982	-4.991	61.511	1.00	25.74
ATOM	9379	CA	ALA	13-8	-24.758	-8.111	60.341	1.00	25.51
ATOM	9380	CB	ALA	13-8	-23.116	-7.031	61.111	1.00	23.64
ATOM	9381	C	ALA	13-8	-24.141	-7.111	60.641	1.00	23.83
ATOM	9382	O	ALA	13-8	-26.101	-7.517	59.111	1.00	19.30
ATOM	9383	N	LYS	13-9	-25.484	-7.061	61.111	1.00	21.43
ATOM	9384	CA	LYS	13-9	-27.114	-7.834	61.811	1.00	21.87
ATOM	9385	CB	LYS	13-9	-27.613	-7.634	61.311	1.00	22.12
ATOM	9386	CG	LYS	13-9	-27.017	-8.111	64.211	1.00	23.10
ATOM	9387	CD	LYS	13-9	-27.713	-7.771	61.311	1.00	41.16
ATOM	9388	CE	LYS	13-9	-26.986	-8.111	60.711	1.00	41.14
ATOM	9389	NZ	LYS	13-9	-27.188	-7.617	60.311	1.00	44.39
ATOM	9390	C	LYS	13-9	-27.909	-7.711	60.811	1.00	26.30
ATOM	9391	O	LYS	13-9	-26.512	-7.914	59.711	1.00	23.86
ATOM	9392	N	ARG	13-0	-26.110	-8.911	60.311	1.00	23.11
ATOM	9393	CA	ARG	13-0	-26.980	-8.111	59.311	1.00	23.02
ATOM	9394	CB	ARG	13-0	-26.946	-7.714	59.811	1.00	23.15
ATOM	9395	CG	ARG	13-0	-26.910	-6.711	61.211	1.00	21.16
ATOM	9396	CD	ARG	13-0	-30.661	-7.111	61.111	1.00	21.18
ATOM	9397	CE	ARG	13-0	-30.637	-6.111	60.611	1.00	24.15
ATOM	9398	CZ	ARG	13-0	-26.189	-6.111	60.711	1.00	23.10
ATOM	9399	NH1	ARG	13-0	-26.466	-6.631	61.311	1.00	23.12
ATOM	9400	NH2	ARG	13-0	-26.561	-6.934	59.311	1.00	23.11
ATOM	9401	C	ARG	13-0	-26.566	-5.711	59.111	1.00	21.15
ATOM	9402	O	ARG	13-0	-26.194	-5.111	57.111	1.00	21.10
ATOM	9403	N	ILE	13-1	-27.111	-5.407	57.964	1.00	24.17
ATOM	9404	CA	ILE	13-1	-26.766	-5.663	56.170	1.00	21.73
ATOM	9405	CB	ILE	13-1	-27.148	-5.777	56.701	1.00	24.19
ATOM	9406	CG2	ILE	13-1	-24.677	-5.627	55.111	1.00	21.68
ATOM	9407	CG1	ILE	13-1	-26.698	-5.779	56.789	1.00	24.18
ATOM	9408	CD1	ILE	13-1	-26.661	-3.714	56.663	1.00	30.17
ATOM	9409	C	ILE	13-1	-26.960	-3.114	56.111	1.00	21.92
ATOM	9410	O	ILE	13-1	-27.323	-3.783	55.661	1.00	22.17
ATOM	9411	N	THR	13-2	-26.550	-8.653	55.163	1.00	23.67
ATOM	9412	CA	THR	13-2	-26.691	-9.463	56.854	1.00	24.09
ATOM	9413	CB	THR	13-2	-26.165	-10.161	57.861	1.00	25.11
ATOM	9414	CG1	THR	13-2	-24.790	-10.643	56.632	1.00	24.75
ATOM	9415	CG2	THR	13-2	-26.163	-11.641	57.474	1.00	21.60
ATOM	9416	C	THR	13-2	-26.133	-9.844	56.709	1.00	25.62
ATOM	9417	O	THR	13-2	-28.371	-10.658	55.411	1.00	24.15
ATOM	9418	N	GLU	13-3	-29.695	-9.255	57.613	1.00	25.81
ATOM	9419	CA	GLU	13-3	-30.505	-9.540	56.754	1.00	28.50
ATOM	9420	CB	GLU	13-3	-31.358	-9.159	57.966	1.00	30.65
ATOM	9421	CG	GLU	13-3	-31.271	-10.140	59.124	1.00	35.02
ATOM	9422	CD	GLU	13-3	-32.129	-9.716	60.300	1.00	38.65

ATOM	9437	EL	GLU	1393	-33.1335	-9.4449	60.069	1.00	40.37
ATOM	9438	HE	GLU	1393	-33.1335	-9.4652	61.435	1.00	39.36
ATOM	9439	C	GLU	1393	-33.1337	-9.819	55.510	1.00	27.06
ATOM	9440	C	GLU	1393	-33.1337	-9.3337	54.920	1.00	39.64
ATOM	9441	N	ALA	1394	-30.511	-7.627	55.254	1.00	24.47
ATOM	9442	CA	ALA	1394	-30.193	-8.847	54.110	1.00	24.04
ATOM	9443	CB	ALA	1394	-30.593	-8.394	54.365	1.00	22.66
ATOM	9444	C	ALA	1394	-30.467	-7.411	52.792	1.00	24.13
ATOM	9445	O	ALA	1394	-31.163	-7.322	51.763	1.00	37.55
ATOM	9446	N	LEU	1395	-29.279	-7.995	52.790	1.00	23.16
ATOM	9447	CA	LEU	1395	-28.841	-8.551	51.531	1.00	22.35
ATOM	9448	CB	LEU	1395	-27.143	-8.307	51.537	1.00	23.06
ATOM	9449	C	LEU	1395	-28.573	-8.453	51.633	1.00	24.33
ATOM	9450	CD1	LEU	1395	-25.155	-8.454	51.337	1.00	23.83
ATOM	9451	CD2	LEU	1395	-27.336	-8.016	50.739	1.00	26.73
ATOM	9452	C	LEU	1395	-26.133	-10.036	51.332	1.00	20.83
ATOM	9453	O	LEU	1395	-28.133	-10.115	52.133	1.00	20.06
ATOM	9440	N	ALA	1396	-29.131	-10.116	50.135	1.00	20.41
ATOM	9441	CA	ALA	1396	-29.130	-11.305	49.136	1.00	21.23
ATOM	9442	CB	ALA	1396	-30.131	-11.371	48.133	1.00	19.07
ATOM	9443	C	ALA	1396	-28.135	-11.313	49.132	1.00	20.66
ATOM	9444	O	ALA	1396	-27.136	-12.353	49.133	1.00	19.21
ATOM	9445	N	ILE	1397	-28.135	-11.323	49.136	1.00	19.73
ATOM	9446	CA	ILE	1397	-25.136	-11.305	48.133	1.00	20.23
ATOM	9447	CB	ILE	1397	-24.131	-11.363	48.133	1.00	19.13
ATOM	9448	CS2	ILE	1397	-23.133	-11.333	46.132	1.00	19.43
ATOM	9449	CS1	ILE	1397	-24.131	-10.139	48.135	1.00	17.71
ATOM	9450	CD1	ILE	1397	-23.136	-9.131	48.137	1.00	18.83
ATOM	9451	C	ILE	1397	-25.133	-11.343	50.133	1.00	20.56
ATOM	9452	O	ILE	1397	-25.133	-12.303	51.133	1.00	21.73
ATOM	9453	N	PRO	1398	-24.136	-13.133	50.133	1.00	22.06
ATOM	9454	CD	PRO	1398	-23.133	-14.133	49.132	1.00	22.23
ATOM	9455	CA	PRO	1398	-23.139	-13.131	51.131	1.00	22.33
ATOM	9456	CB	PRO	1398	-22.133	-13.133	51.133	1.00	23.03
ATOM	9457	CG	PRO	1398	-22.133	-13.133	49.133	1.00	25.33
ATOM	9458	C	PRO	1398	-22.136	-11.133	52.133	1.00	21.13
ATOM	9459	O	PRO	1398	-21.133	-12.133	51.133	1.00	21.73
ATOM	9460	N	VAL	1399	-22.131	-12.133	53.133	1.00	21.33
ATOM	9461	CA	VAL	1399	-21.133	-11.133	54.133	1.00	20.13
ATOM	9462	CB	VAL	1399	-20.133	-10.133	54.133	1.00	21.13
ATOM	9463	CG1	VAL	1399	-21.136	-9.133	55.133	1.00	20.13
ATOM	9464	CG2	VAL	1399	-23.136	-9.133	54.133	1.00	21.13
ATOM	9465	C	VAL	1399	-20.133	-12.133	55.133	1.00	20.44
ATOM	9466	O	VAL	1399	-21.133	-12.133	55.133	1.00	19.13
ATOM	9467	N	ILE	1400	-19.133	-12.133	54.133	1.00	20.33
ATOM	9468	CA	ILE	1400	-18.133	-12.133	55.133	1.00	19.23
ATOM	9469	CB	ILE	1400	-17.133	-12.133	54.133	1.00	20.13
ATOM	9470	CS2	ILE	1400	-16.133	-12.133	55.133	1.00	20.13
ATOM	9471	CS1	ILE	1400	-15.133	-12.133	53.133	1.00	22.13
ATOM	9472	CD1	ILE	1400	-16.133	-14.133	52.133	1.00	24.13
ATOM	9473	C	ILE	1400	-15.133	-11.133	56.133	1.00	19.13
ATOM	9474	O	ILE	1400	-17.133	-9.133	56.133	1.00	17.13
ATOM	9475	N	GLY	1401	-15.133	-11.133	57.133	1.00	17.13
ATOM	9476	CA	GLY	1401	-15.133	-10.133	58.133	1.00	17.13
ATOM	9477	C	GLY	1401	-16.133	-10.133	59.133	1.00	17.13
ATOM	9478	O	GLY	1401	-15.133	-11.133	59.133	1.00	18.13
ATOM	9479	N	ILE	1402	-15.133	-9.133	59.133	1.00	17.13
ATOM	9480	CA	ILE	1402	-14.133	-9.133	60.133	1.00	19.13
ATOM	9481	CB	ILE	1402	-13.133	-9.133	59.133	1.00	17.13
ATOM	9482	CG2	ILE	1402	-13.133	-8.133	58.133	1.00	19.13
ATOM	9483	CG1	ILE	1402	-11.133	-9.133	60.133	1.00	22.13
ATOM	9484	CD1	ILE	1402	-10.133	-9.133	59.133	1.00	21.13
ATOM	9485	C	ILE	1402	-14.133	-8.133	61.133	1.00	17.13
ATOM	9486	O	ILE	1402	-14.133	-7.133	61.133	1.00	21.13
ATOM	9487	N	GLY	1403	-14.133	-8.133	62.133	1.00	18.13
ATOM	9488	CA	GLY	1403	-14.133	-7.133	63.133	1.00	19.13
ATOM	9489	C	GLY	1403	-16.133	-7.133	63.133	1.00	20.13
ATOM	9490	O	GLY	1403	-16.133	-5.133	63.133	1.00	20.13
ATOM	9491	N	ALA	1404	-17.133	-7.133	63.133	1.00	20.13
ATOM	9492	CA	ALA	1404	-18.133	-7.133	63.133	1.00	22.13
ATOM	9493	CB	ALA	1404	-18.133	-7.133	61.133	1.00	24.13
ATOM	9494	C	ALA	1404	-19.133	-8.133	63.133	1.00	24.13
ATOM	9495	O	ALA	1404	-20.133	-8.133	63.133	1.00	24.13
ATOM	9496	N	GLY	1405	-18.133	-9.133	64.133	1.00	24.13
ATOM	9497	CA	GLY	1405	-19.133	-10.133	65.133	1.00	25.13
ATOM	9498	C	GLY	1405	-20.133	-11.133	64.133	1.00	26.13
ATOM	9499	O	GLY	1405	-19.133	-11.133	63.133	1.00	27.13

ATOM	9501	N	ASN	1406	-20.854	-12.767	65.057	1.00	25.69
ATOM	9502	CA	ASN	1406	-21.144	-13.676	64.701	1.00	25.78
ATOM	9503	CB	ASN	1406	-21.144	-13.756	65.781	1.00	26.56
ATOM	9504	CG	ASN	1406	-22.363	-13.641	66.745	1.00	28.85
ATOM	9505	CD	ASN	1406	-22.839	-13.586	67.470	1.00	29.28
ATOM	9506	NE1	ASN	1406	-22.792	-13.481	66.760	1.00	25.14
ATOM	9507	O	ASN	1406	-22.341	-13.713	63.952	1.00	24.77
ATOM	9508	N	ASN	1406	-22.936	-13.797	63.573	1.00	25.44
ATOM	9509	N	VAL	1407	-23.971	-13.511	63.723	1.00	24.74
ATOM	9510	CA	VAL	1407	-24.334	-13.434	63.033	1.00	25.27
ATOM	9511	CB	VAL	1407	-25.064	-13.133	63.403	1.00	25.71
ATOM	9512	CG1	VAL	1407	-26.535	-13.133	63.393	1.00	31.10
ATOM	9513	CG2	VAL	1407	-25.010	-13.197	64.413	1.00	27.15
ATOM	9514	O	VAL	1407	-24.234	-13.437	63.313	1.00	25.71
ATOM	9515	O	VAL	1407	-25.223	-13.531	63.193	1.00	24.78
ATOM	9516	N	THR	1408	-22.941	-13.437	63.123	1.00	23.79
ATOM	9517	CA	THR	1408	-22.753	-13.433	58.893	1.00	21.63
ATOM	9518	CB	THR	1408	-21.775	-13.831	58.133	1.00	20.71
ATOM	9519	CG1	THR	1408	-20.834	-13.436	63.163	1.00	19.12
ATOM	9520	CG2	THR	1408	-21.401	-13.332	58.463	1.00	17.17
ATOM	9521	O	THR	1408	-21.832	-13.337	58.103	1.00	21.53
ATOM	9522	O	THR	1408	-22.831	-13.537	58.803	1.00	24.16
ATOM	9523	N	ASP	1409	-22.874	-13.033	58.133	1.00	19.58
ATOM	9524	CA	ASP	1409	-22.942	-13.436	58.153	1.00	19.61
ATOM	9525	CB	ASP	1409	-23.371	-13.234	58.893	1.00	21.56
ATOM	9526	CG	ASP	1409	-24.712	-13.639	58.153	1.00	22.41
ATOM	9527	OD1	ASP	1409	-25.693	-13.136	58.193	1.00	22.97
ATOM	9528	OD2	ASP	1409	-24.786	-13.536	54.893	1.00	25.06
ATOM	9529	O	ASP	1409	-21.600	-13.132	58.113	1.00	19.51
ATOM	9530	O	ASP	1409	-21.533	-13.332	58.136	1.00	18.44
ATOM	9531	N	GLY	1410	-20.534	-13.333	58.113	1.00	21.88
ATOM	9532	CA	GLY	1410	-19.204	-13.833	58.153	1.00	20.44
ATOM	9533	O	GLY	1410	-18.249	-13.633	58.123	1.00	19.65
ATOM	9534	O	GLY	1410	-18.589	-14.033	58.594	1.00	18.97
ATOM	9535	N	GLN	1411	-17.050	-13.633	58.133	1.00	19.68
ATOM	9536	CA	GLN	1411	-16.911	-13.633	58.116	1.00	20.60
ATOM	9537	CB	GLN	1411	-15.917	-13.733	60.113	1.00	19.91
ATOM	9538	CG	GLN	1411	-14.981	-13.636	60.113	1.00	19.40
ATOM	9539	CD	GLN	1411	-17.391	-14.233	60.133	1.00	16.91
ATOM	9540	OE1	GLN	1411	-14.414	-13.433	60.113	1.00	18.73
ATOM	9541	NE2	GLN	1411	-18.378	-13.833	60.133	1.00	18.43
ATOM	9542	O	GLN	1411	-14.676	-13.033	58.133	1.00	20.57
ATOM	9543	O	GLN	1411	-14.431	-13.883	58.136	1.00	19.66
ATOM	9544	N	LEU	1412	-13.824	-14.033	58.136	1.00	22.26
ATOM	9545	CA	LEU	1412	-12.501	-13.933	58.136	1.00	23.51
ATOM	9546	CB	LEU	1412	-12.570	-13.234	58.136	1.00	23.39
ATOM	9547	CG2	LEU	1412	-12.757	-13.673	58.136	1.00	23.56
ATOM	9548	CG1	LEU	1412	-11.327	-13.336	58.136	1.00	15.86
ATOM	9549	CD1	LEU	1412	-11.316	-12.973	58.136	1.00	25.23
ATOM	9550	O	LEU	1412	-11.536	-13.336	58.136	1.00	25.52
ATOM	9551	O	LEU	1412	-11.952	-12.617	60.136	1.00	23.69
ATOM	9552	N	LEU	1413	-10.248	-13.637	58.136	1.00	27.48
ATOM	9553	CA	LEU	1413	-9.243	-13.637	58.136	1.00	28.61
ATOM	9554	CB	LEU	1413	-9.351	-13.637	60.136	1.00	24.82
ATOM	9555	CG	LEU	1413	-9.299	-12.833	60.136	1.00	32.41
ATOM	9556	CD1	LEU	1413	-9.200	-13.433	60.136	1.00	29.43
ATOM	9557	CD2	LEU	1413	-8.100	-11.317	60.136	1.00	29.60
ATOM	9558	O	LEU	1413	-5.863	-13.833	58.136	1.00	28.53
ATOM	9559	O	LEU	1413	-5.692	-14.233	58.136	1.00	25.03
ATOM	9560	N	VAL	1414	-6.890	-12.481	58.136	1.00	29.11
ATOM	9561	CA	VAL	1414	-5.520	-12.681	58.147	1.00	29.08
ATOM	9562	CB	VAL	1414	-4.638	-11.433	58.147	1.00	30.55
ATOM	9563	CG1	VAL	1414	-3.238	-11.633	58.166	1.00	31.68
ATOM	9564	CG2	VAL	1414	-5.277	-10.165	58.166	1.00	31.09
ATOM	9565	O	VAL	1414	-4.961	-13.886	58.166	1.00	28.58
ATOM	9566	O	VAL	1414	-4.936	-13.923	61.192	1.00	28.63
ATOM	9567	N	MET	1415	-4.525	-14.865	58.187	1.00	26.58
ATOM	9568	CA	MET	1415	-3.976	-16.096	58.144	1.00	25.18
ATOM	9569	CB	MET	1415	-3.386	-16.959	58.127	1.00	21.68
ATOM	9570	CG	MET	1415	-2.253	-16.306	58.177	1.00	20.54
ATOM	9571	SD	MET	1415	-1.043	-17.545	58.100	1.00	21.74
ATOM	9572	CE	MET	1415	-0.091	-17.623	58.832	1.00	21.73
ATOM	9573	O	MET	1415	-2.912	-15.850	60.713	1.00	25.50
ATOM	9574	O	MET	1415	-2.793	-16.614	61.671	1.00	25.46
ATOM	9575	N	HIS	1416	-2.144	-14.778	60.548	1.00	25.98
ATOM	9576	CA	HIS	1416	-1.089	-14.440	61.496	1.00	27.03
ATOM	9577	CB	HIS	1416	-0.294	-13.242	60.974	1.00	26.14

ATOM	9577	CE1	HIS	1416	-1.471	-11.541	58.726	1.00	16.66
ATOM	9578	CE2	HIS	1416	-0.121	-12.519	58.421	1.00	15.19
ATOM	9579	NE1	HIS	1416	-1.781	-11.061	58.750	1.00	25.73
ATOM	9580	CE1	HIS	1416	-2.188	-11.243	58.517	1.00	24.75
ATOM	9581	NE2	HIS	1416	-1.113	-12.954	57.690	1.00	27.41
ATOM	9582	C	HIS	1416	-1.681	-11.163	62.889	1.00	28.75
ATOM	9583	O	HIS	1416	-1.076	-11.593	63.887	1.00	27.94
ATOM	9584	N	ASP	1417	-0.773	-12.444	62.968	1.00	29.75
ATOM	9585	CA	ASP	1417	-3.336	-11.156	64.262	1.00	31.32
ATOM	9586	CB	ASP	1417	-4.438	-11.063	64.134	1.00	31.18
ATOM	9587	CG	ASP	1417	-3.836	-11.733	63.731	1.00	31.67
ATOM	9588	OD1	ASP	1417	-2.930	-11.232	64.361	1.00	33.25
ATOM	9589	OD2	ASP	1417	-1.419	-11.111	62.783	1.00	31.11
ATOM	9590	C	ASP	1417	-1.015	-11.403	64.349	1.00	33.09
ATOM	9591	O	ASP	1417	-4.140	-11.543	66.097	1.00	34.61
ATOM	9592	N	ALA	1418	-1.135	-11.311	63.767	1.00	31.01
ATOM	9593	CA	ALA	1418	-5.044	-11.552	64.769	1.00	35.06
ATOM	9594	CB	ALA	1418	-5.830	-11.207	63.764	1.00	31.52
ATOM	9595	C	ALA	1418	-4.110	-11.533	65.034	1.00	36.11
ATOM	9596	O	ALA	1418	-1.624	-11.505	65.871	1.00	36.84
ATOM	9597	N	PHE	1419	-2.613	-11.287	64.764	1.00	37.13
ATOM	9598	CA	PHE	1419	-1.741	-11.161	65.436	1.00	36.21
ATOM	9599	CB	PHE	1419	-0.949	-11.843	64.321	1.00	35.87
ATOM	9600	CG	PHE	1419	-1.841	-11.607	63.349	1.00	35.07
ATOM	9601	CD1	PHE	1419	-2.859	-21.453	63.806	1.00	34.80
ATOM	9602	CD2	PHE	1419	-1.671	-11.472	61.375	1.00	34.70
ATOM	9603	CE1	PHE	1419	-3.654	-21.176	62.911	1.00	34.60
ATOM	9604	CE2	PHE	1419	-3.461	-20.180	61.677	1.00	34.92
ATOM	9605	CZ	PHE	1419	-3.466	-21.035	61.544	1.00	40.35
ATOM	9606	C	PHE	1419	-0.838	-17.112	66.364	1.00	35.97
ATOM	9607	O	PHE	1419	0.267	-17.389	66.364	1.00	35.74
ATOM	9608	N	GLY	1420	-1.278	-12.245	66.831	1.00	35.56
ATOM	9609	CA	GLY	1420	-0.472	-12.144	67.731	1.00	34.95
ATOM	9610	C	GLY	1420	0.900	-15.973	67.205	1.00	34.01
ATOM	9611	O	GLY	1420	-1.762	-14.622	67.967	1.00	34.99
ATOM	9612	N	ILE	1421	-1.112	-11.373	65.901	1.00	34.41
ATOM	9613	CA	ILE	1421	-2.394	-14.350	65.229	1.00	28.93
ATOM	9614	CB	ILE	1421	-2.413	-13.367	63.804	1.00	28.13
ATOM	9615	CG2	ILE	1421	-3.722	-14.325	63.154	1.00	24.57
ATOM	9616	CG1	ILE	1421	-2.164	-16.380	63.684	1.00	26.51
ATOM	9617	CD1	ILE	1421	-2.034	-15.371	62.327	1.00	16.34
ATOM	9618	C	ILE	1421	-2.626	-13.147	65.411	1.00	29.11
ATOM	9619	O	ILE	1421	-3.516	-11.399	65.761	1.00	27.54
ATOM	9620	N	THR	1422	-1.577	-11.676	65.147	1.00	30.56
ATOM	9621	CA	THR	1422	-1.654	-11.322	65.195	1.00	35.04
ATOM	9622	CB	THR	1422	0.315	-10.585	64.799	1.00	34.07
ATOM	9623	CG1	THR	1422	-0.731	-11.041	65.685	1.00	35.17
ATOM	9624	CG2	THR	1422	-0.645	-10.361	63.371	1.00	31.21
ATOM	9625	C	THR	1422	-2.015	-10.853	65.551	1.00	31.44
ATOM	9626	O	THR	1422	-1.761	-11.343	67.594	1.00	33.13
ATOM	9627	N	GLY	1423	-2.716	-9.503	66.501	1.00	36.11
ATOM	9628	CA	GLY	1423	-3.187	-8.903	67.681	1.00	42.33
ATOM	9629	C	GLY	1423	-1.953	-9.139	69.001	1.00	44.66
ATOM	9630	O	GLY	1423	-3.545	-10.341	68.277	1.00	40.32
ATOM	9631	N	GLN	1424	-1.113	-8.393	69.893	1.00	45.54
ATOM	9632	CA	GLN	1424	-1.826	-9.473	71.131	1.00	46.72
ATOM	9633	C	GLN	1424	0.367	-9.343	71.521	1.00	47.44
ATOM	9634	O	GLN	1424	-3.243	-10.347	71.951	1.00	48.01
ATOM	9635	N	HIS	1425	-0.202	-8.373	71.311	1.00	47.09
ATOM	9636	CA	HIS	1425	-1.587	-7.968	71.747	1.00	48.69
ATOM	9637	CB	HIS	1425	-1.712	-6.701	72.599	1.00	50.45
ATOM	9638	CG	HIS	1425	-2.977	-6.664	73.429	1.00	52.29
ATOM	9639	CD2	HIS	1425	-3.831	-5.654	73.701	1.00	50.71
ATOM	9640	ND1	HIS	1425	-3.434	-7.751	74.131	1.00	50.03
ATOM	9641	CE1	HIS	1425	-4.518	-7.318	74.811	1.00	52.99
ATOM	9642	NE2	HIS	1425	-4.781	-6.148	74.561	1.00	54.24
ATOM	9643	C	HIS	1425	-2.485	-7.968	70.511	1.00	47.46
ATOM	9644	O	HIS	1425	-2.627	-6.802	69.917	1.00	46.90
ATOM	9645	N	ILE	1426	-3.078	-8.993	70.129	1.00	47.14
ATOM	9646	CA	ILE	1426	-3.941	-9.039	68.960	1.00	46.99
ATOM	9647	CB	ILE	1426	-4.454	-10.385	68.649	1.00	47.44
ATOM	9648	CG2	ILE	1426	-3.160	-11.313	68.259	1.00	49.26
ATOM	9649	CG1	ILE	1426	-5.063	-11.098	69.860	1.00	47.01
ATOM	9650	CD1	ILE	1426	-5.604	-12.486	69.601	1.00	47.10
ATOM	9651	C	ILE	1426	-5.184	-8.177	69.148	1.00	45.31
ATOM	9652	O	ILE	1426	-5.532	-7.801	70.271	1.00	45.25
ATOM	9653	N	PRO	1427	-5.868	-7.844	68.045	1.00	44.13

ATOM	9654	CD	PHE	1427	-8.181	-8.127	68.931	1.00	43.74
ATOM	9655	CA	PHE	1427	-7.774	-8.020	68.111	1.00	42.56
ATOM	9656	CB	PHE	1427	-7.414	-8.184	68.643	1.00	42.85
ATOM	9657	CG	PHE	1427	-6.951	-8.038	68.959	1.00	44.37
ATOM	9658	C	LEU	1427	-8.111	-7.763	68.470	1.00	40.69
ATOM	9659	O	LEU	1427	-8.104	-8.108	68.941	1.00	39.71
ATOM	9660	N	LYS	1428	-8.165	-8.864	69.446	1.00	39.55
ATOM	9661	CA	LYS	1428	-10.128	-7.402	70.189	1.00	38.01
ATOM	9662	CB	LYS	1428	-11.115	-8.174	70.631	1.00	38.74
ATOM	9663	CG	LYS	1428	-10.693	-8.483	71.860	1.00	44.44
ATOM	9664	CD	LYS	1428	-9.481	-8.683	71.629	1.00	46.69
ATOM	9665	CE	LYS	1428	-8.116	-8.444	72.046	1.00	47.27
ATOM	9666	NE	LYS	1428	-8.917	-8.715	71.829	1.00	43.13
ATOM	9667	C	LYS	1428	-11.665	-8.451	69.413	1.00	35.07
ATOM	9668	O	LYS	1428	-11.557	-8.417	69.994	1.00	33.86
ATOM	9669	N	PHE	1429	-11.113	-8.350	68.112	1.00	32.23
ATOM	9670	CA	PHE	1429	-12.014	-9.159	67.293	1.00	33.78
ATOM	9671	CB	PHE	1429	-12.484	-8.430	66.927	1.00	37.62
ATOM	9672	CG	PHE	1429	-11.366	-7.934	65.131	1.00	34.25
ATOM	9673	CD	PHE	1429	-10.713	-8.837	64.401	1.00	33.47
ATOM	9674	CE	PHE	1429	-10.962	-8.634	65.116	1.00	32.84
ATOM	9675	NE	PHE	1429	-9.673	-8.439	63.476	1.00	31.56
ATOM	9676	HA	PHE	1429	-9.922	-8.237	64.293	1.00	33.95
ATOM	9677	CZ	PHE	1429	-9.276	-7.156	63.469	1.00	34.89
ATOM	9678	C	PHE	1429	-11.314	-10.463	68.914	1.00	34.44
ATOM	9679	O	PHE	1429	-11.952	-11.338	66.424	1.00	36.30
ATOM	9680	N	ALA	1430	-10.008	-10.534	67.149	1.00	33.50
ATOM	9681	CA	ALA	1430	-9.236	-11.726	66.816	1.00	34.62
ATOM	9682	CB	ALA	1430	-7.854	-11.325	66.325	1.00	34.04
ATOM	9683	C	ALA	1430	-9.106	-12.635	67.998	1.00	31.64
ATOM	9684	O	ALA	1430	-9.352	-12.311	68.150	1.00	31.63
ATOM	9685	N	LYS	1431	-8.741	-13.907	67.685	1.00	31.81
ATOM	9686	CA	LYS	1431	-8.561	-14.949	68.712	1.00	32.80
ATOM	9687	CB	LYS	1431	-9.847	-15.759	68.891	1.00	33.98
ATOM	9688	CG	LYS	1431	-8.731	-16.878	69.916	1.00	35.77
ATOM	9689	CD	LYS	1431	-11.942	-17.635	70.055	1.00	34.17
ATOM	9690	CE	LYS	1431	-10.902	-18.801	70.298	1.00	37.40
ATOM	9691	NZ	LYS	1431	-12.189	-19.511	71.174	1.00	38.02
ATOM	9692	C	LYS	1431	-9.420	-15.877	68.501	1.00	33.12
ATOM	9693	O	LYS	1431	-7.979	-16.414	67.113	1.00	32.57
ATOM	9694	N	ASN	1432	-6.496	-16.041	69.166	1.00	31.52
ATOM	9695	CA	ASN	1432	-5.350	-16.902	69.654	1.00	30.83
ATOM	9696	CB	ASN	1432	-4.260	-16.685	70.087	1.00	30.68
ATOM	9697	CG	ASN	1432	-2.995	-17.463	69.860	1.00	28.49
ATOM	9698	OD1	ASN	1432	-3.946	-18.600	69.178	1.00	27.67
ATOM	9699	ND2	ASN	1432	-1.856	-16.809	70.120	1.00	26.41
ATOM	9700	C	ASN	1432	-5.814	-19.411	69.223	1.00	29.31
ATOM	9701	O	ASN	1432	-5.417	-19.841	70.147	1.00	31.09
ATOM	9702	N	PHE	1433	-6.055	-19.008	68.113	1.00	33.51
ATOM	9703	CA	PHE	1433	-6.353	-20.481	68.164	1.00	30.25
ATOM	9704	CB	PHE	1433	-7.283	-20.841	66.873	1.00	31.29
ATOM	9705	CG	PHE	1433	-8.609	-20.114	66.706	1.00	32.82
ATOM	9706	CD	PHE	1433	-8.682	-18.809	66.090	1.00	32.79
ATOM	9707	CE	PHE	1433	-9.781	-20.707	67.160	1.00	31.58
ATOM	9708	NE	PHE	1433	-9.907	-19.214	65.916	1.00	31.13
ATOM	9709	HA	PHE	1433	-11.927	-20.111	67.661	1.00	31.77
ATOM	9710	CZ	PHE	1433	-11.972	-18.808	67.094	1.00	31.18
ATOM	9711	C	PHE	1433	-5.411	-21.449	68.181	1.00	30.93
ATOM	9712	O	PHE	1433	-5.652	-22.604	68.616	1.00	30.60
ATOM	9713	N	LEU	1434	-4.179	-20.909	68.197	1.00	31.92
ATOM	9714	CA	LEU	1434	-3.934	-21.847	68.501	1.00	33.45
ATOM	9715	CB	LEU	1434	-1.783	-21.256	67.834	1.00	30.12
ATOM	9716	CG	LEU	1434	-0.507	-22.134	67.974	1.00	28.43
ATOM	9717	CD	LEU	1434	-0.732	-23.515	67.385	1.00	24.64
ATOM	9718	CE	LEU	1434	0.546	-21.422	67.267	1.00	29.29
ATOM	9719	C	LEU	1434	-2.792	-22.008	69.997	1.00	35.53
ATOM	9720	O	LEU	1434	-3.528	-23.109	70.472	1.00	35.29
ATOM	9721	N	ALA	1435	-3.890	-20.903	70.731	1.00	30.10
ATOM	9722	CA	ALA	1435	-2.685	-20.916	72.175	1.00	43.53
ATOM	9723	CB	ALA	1435	-2.849	-19.512	72.741	1.00	41.69
ATOM	9724	C	ALA	1435	-3.675	-21.804	72.803	1.00	46.59
ATOM	9725	O	ALA	1435	-3.376	-22.480	73.857	1.00	48.64
ATOM	9726	N	GLU	1436	-4.857	-21.974	72.235	1.00	49.35
ATOM	9727	CA	GLU	1436	-5.908	-22.852	72.742	1.00	52.23
ATOM	9728	CB	GLU	1436	-7.250	-22.507	72.685	1.00	54.27
ATOM	9729	CG	GLU	1436	-7.670	-21.046	72.215	1.00	57.48
ATOM	9730	CD	GLU	1436	-8.111	-20.674	73.617	1.00	59.19

ATOM	9741	SEI	GLN	1436	-4.1294	-25.1875	68.5807	1.00	52.49
ATOM	9742	OR1	GLN	1436	-4.1278	-25.1851	70.7775	1.00	52.49
ATOM	9743	O	GLN	1436	-4.5449	-25.3365	70.4423	1.00	52.80
ATOM	9744	O	GLN	1436	-4.5449	-25.3368	72.6410	1.00	53.11
ATOM	9745	N	THR	1437	-4.3334	-25.5904	71.1926	1.00	52.44
ATOM	9746	CA	THR	1437	-4.3895	-25.6349	71.5882	1.00	53.71
ATOM	9747	CB	THR	1437	-4.4002	-25.6349	73.6288	1.00	54.12
ATOM	9748	CG1	THR	1437	-4.3879	-27.6358	69.9668	1.00	55.03
ATOM	9749	CG2	THR	1437	-4.1167	-25.6405	69.1113	1.00	55.13
ATOM	9749	O	THR	1437	-4.3332	-25.6019	71.4440	1.00	53.30
ATOM	9749	O	THR	1437	-1.6702	-25.6348	70.1113	1.00	53.43
ATOM	9749	N	GLY	1438	-1.8002	-26.7716	70.5571	1.00	51.55
ATOM	9749	CA	GLY	1438	-0.3897	-26.7716	70.3671	1.00	49.89
ATOM	9749	O	GLY	1438	-0.931	-27.1262	68.4977	1.00	48.04
ATOM	9749	O	GLY	1438	-1.117	-27.6093	68.6990	1.00	48.97
ATOM	9749	N	ASP	1439	-1.023	-27.0045	68.0988	1.00	45.31
ATOM	9749	CA	ASP	1439	-0.826	-27.0049	66.7111	1.00	42.62
ATOM	9749	CB	ASP	1439	-1.158	-29.1138	66.5543	1.00	44.51
ATOM	9749	CG	ASP	1439	-1.261	-29.6633	65.1341	1.00	46.55
ATOM	9750	SEI	ASP	1439	-2.119	-29.1136	64.3091	1.00	47.77
ATOM	9751	SEI	ASP	1439	-0.319	-30.4302	64.8081	1.00	48.59
ATOM	9751	O	ASP	1439	-1.540	-28.7447	65.7113	1.00	39.71
ATOM	9753	O	ASP	1439	-2.710	-26.5402	65.8613	1.00	38.19
ATOM	9754	N	ILE	1440	-0.779	-26.1500	64.8481	1.00	37.29
ATOM	9755	CA	ILE	1440	-1.337	-25.1206	63.9883	1.00	34.57
ATOM	9756	CB	ILE	1440	-0.268	-24.7951	62.861	1.00	33.51
ATOM	9757	CG2	ILE	1440	-0.920	-23.9300	61.748	1.00	33.39
ATOM	9758	CG1	ILE	1440	0.810	-23.9300	63.5702	1.00	32.81
ATOM	9759	CD1	ILE	1440	1.950	-23.460	62.674	1.00	31.48
ATOM	9760	O	ILE	1440	-2.540	-25.7774	63.114	1.00	32.97
ATOM	9761	O	ILE	1440	-3.589	-25.097	62.3994	1.00	32.77
ATOM	9762	N	ARG	1441	-2.419	-27.012	62.608	1.00	31.92
ATOM	9763	CA	ARG	1441	-3.532	-27.651	61.947	1.00	30.40
ATOM	9764	CB	ARG	1441	-3.114	-28.943	61.384	1.00	30.10
ATOM	9765	CG	ARG	1441	-2.184	-28.867	60.206	1.00	31.94
ATOM	9766	CH	ARG	1441	-1.682	-30.366	59.781	1.00	31.51
ATOM	9767	NE	ARG	1441	-0.631	-30.132	58.580	1.00	31.85
ATOM	9768	CG	ARG	1441	0.341	-29.365	58.384	1.00	31.71
ATOM	9769	NE1	ARG	1441	0.843	-28.966	59.621	1.00	31.69
ATOM	9770	NH2	ARG	1441	1.366	-29.571	57.418	1.00	31.51
ATOM	9771	O	ARG	1441	-4.110	-27.776	62.868	1.00	30.09
ATOM	9772	O	ARG	1441	-5.341	-27.792	62.448	1.00	30.18
ATOM	9773	N	ALA	1442	-4.110	-27.909	64.15	1.00	29.42
ATOM	9774	CA	ALA	1442	-5.117	-28.115	63.15	1.00	28.31
ATOM	9775	CB	ALA	1442	-4.263	-28.600	66.468	1.00	27.62
ATOM	9776	O	ALA	1442	-6.113	-26.771	65.30	1.00	26.62
ATOM	9777	O	ALA	1442	-5.546	-26.996	65.471	1.00	28.01
ATOM	9778	N	ALA	1442	-5.277	-25.694	65.27	1.00	24.91
ATOM	9779	CA	ALA	1442	-5.973	-24.943	65.411	1.00	24.91
ATOM	9780	CB	ALA	1442	-4.719	-23.750	65.421	1.00	24.63
ATOM	9781	O	ALA	1442	-6.371	-24.643	64.264	1.00	24.51
ATOM	9782	O	ALA	1442	-7.249	-23.773	64.458	1.00	24.61
ATOM	9783	N	VAL	1443	-6.513	-24.947	61.07	1.00	24.08
ATOM	9784	CA	VAL	1443	-5.346	-25.744	61.888	1.00	25.39
ATOM	9785	CB	VAL	1443	-6.718	-24.973	60.62	1.00	25.18
ATOM	9786	CD1	VAL	1443	-7.881	-24.982	59.14	1.00	26.75
ATOM	9787	CG2	VAL	1443	-5.113	-24.117	60.37	1.00	24.41
ATOM	9788	O	VAL	1443	-8.717	-25.612	61.898	1.00	26.18
ATOM	9789	O	VAL	1443	-9.742	-24.778	61.854	1.00	25.38
ATOM	9790	N	ARG	1445	-9.743	-26.262	62.508	1.00	27.78
ATOM	9791	CA	ARG	1445	-8.468	-27.001	62.728	1.00	29.73
ATOM	9792	CB	ARG	1445	-8.698	-28.419	63.088	1.00	30.48
ATOM	9793	CG	ARG	1445	-8.065	-29.272	61.958	1.00	31.74
ATOM	9794	CD	ARG	1445	-8.068	-30.766	62.213	1.00	33.04
ATOM	9795	NE	ARG	1445	-8.243	-31.166	63.424	1.00	34.02
ATOM	9796	C2	ARG	1445	-6.411	-31.541	63.388	1.00	23.14
ATOM	9797	NH1	ARG	1445	-6.286	-31.278	62.751	1.00	31.44
ATOM	9798	NH2	ARG	1445	-6.288	-31.680	64.498	1.00	33.53
ATOM	9799	O	ARG	1445	-10.816	-28.741	63.808	1.00	30.41
ATOM	9800	O	ARG	1445	-12.070	-26.798	63.688	1.00	29.87
ATOM	9801	N	GLN	1446	-10.203	-25.857	64.868	1.00	31.30
ATOM	9802	CA	GLN	1446	-10.937	-25.246	65.958	1.00	32.71
ATOM	9803	CB	GLN	1446	-9.987	-24.827	67.098	1.00	35.17
ATOM	9804	CG	GLN	1446	-10.629	-24.629	68.421	1.00	39.56
ATOM	9805	CD	GLN	1446	-9.759	-24.160	69.514	1.00	41.33
ATOM	9806	SEI	GLN	1446	-8.609	-24.608	69.599	1.00	42.46
ATOM	9807	NE2	GLN	1446	-10.247	-23.262	70.371	1.00	40.91

ATOM	9408	C	GLN	1447	-11.632	-23.088	65.443	1.00	31.41
ATOM	9409	O	GLN	1447	-11.173	-23.713	65.755	1.00	30.44
ATOM	9410	N	TYR	1447	-10.967	-24.711	64.843	1.00	31.24
ATOM	9411	CA	TYR	1447	-11.444	-23.981	64.557	1.00	30.17
ATOM	9412	CB	TYR	1447	-10.561	-21.189	63.843	1.00	29.43
ATOM	9413	CH	TYR	1447	-10.945	-22.153	63.574	1.00	28.31
ATOM	9414	CH1	TYR	1447	-11.515	-23.059	63.827	1.00	27.71
ATOM	9415	CH2	TYR	1447	-11.099	-22.023	63.122	1.00	25.98
ATOM	9416	CH3	TYR	1447	-10.083	-20.180	60.896	1.00	24.41
ATOM	9417	CH4	TYR	1447	-11.158	-19.164	60.179	1.00	20.23
ATOM	9418	CZ	TYR	1447	-11.816	-18.087	60.748	1.00	27.37
ATOM	9419	H	TYR	1447	-12.179	-17.093	59.939	1.00	26.55
ATOM	9420	C	TYR	1447	-12.679	-22.347	63.213	1.00	29.65
ATOM	9421	O	TYR	1447	-13.685	-21.559	63.301	1.00	30.55
ATOM	9422	N	MET	1448	-12.598	-23.339	62.392	1.00	29.56
ATOM	9423	CA	MET	1448	-13.793	-23.792	61.531	1.00	30.33
ATOM	9424	CB	MET	1448	-13.281	-24.338	60.631	1.00	30.01
ATOM	9425	CG	MET	1448	-12.224	-24.549	59.580	1.00	31.10
ATOM	9426	CH	MET	1448	-11.474	-25.091	58.818	1.00	31.68
ATOM	9427	CE	MET	1448	-12.291	-24.227	57.742	1.00	30.90
ATOM	9428	C	MET	1448	-14.995	-24.133	62.327	1.00	30.93
ATOM	9429	O	MET	1448	-16.045	-23.736	62.061	1.00	29.66
ATOM	9430	N	ALA	1449	-14.729	-24.976	63.303	1.00	31.49
ATOM	9431	CA	ALA	1449	-15.814	-25.167	64.152	1.00	32.05
ATOM	9432	CB	ALA	1449	-15.293	-26.567	65.076	1.00	32.34
ATOM	9433	C	ALA	1449	-16.488	-24.369	64.974	1.00	33.12
ATOM	9434	O	ALA	1449	-17.708	-24.350	65.103	1.00	33.68
ATOM	9435	N	GLU	1450	-15.693	-23.460	65.523	1.00	32.10
ATOM	9436	CA	GLU	1450	-16.237	-22.382	66.333	1.00	33.21
ATOM	9437	CB	GLU	1450	-15.184	-21.645	67.141	1.00	34.06
ATOM	9438	CG	GLU	1450	-14.693	-22.482	68.353	1.00	36.21
ATOM	9439	CD	GLU	1450	-13.737	-21.708	69.231	1.00	38.09
ATOM	9440	OE1	GLU	1450	-14.030	-20.539	69.543	1.00	40.42
ATOM	9441	OE2	GLU	1450	-12.685	-22.269	69.615	1.00	41.16
ATOM	9442	C	GLU	1450	-17.023	-21.339	65.509	1.00	32.93
ATOM	9443	O	GLU	1450	-17.956	-20.731	66.316	1.00	31.73
ATOM	9444	N	VAL	1451	-16.636	-21.137	64.243	1.00	31.86
ATOM	9445	CA	VAL	1451	-17.330	-20.241	63.373	1.00	31.03
ATOM	9446	CB	VAL	1451	-16.534	-19.383	62.064	1.00	30.01
ATOM	9447	CH	VAL	1451	-17.439	-19.275	61.041	1.00	29.73
ATOM	9448	CH2	VAL	1451	-15.312	-19.233	62.367	1.00	28.24
ATOM	9449	C	VAL	1451	-16.713	-20.283	63.017	1.00	31.91
ATOM	9450	O	VAL	1451	-19.705	-20.335	63.094	1.00	32.23
ATOM	9451	N	GLU	1452	-16.766	-22.035	62.639	1.00	31.89
ATOM	9452	CA	GLU	1452	-20.019	-22.284	62.267	1.00	33.73
ATOM	9453	CB	GLU	1452	-19.341	-24.083	61.660	1.00	34.97
ATOM	9454	CG	GLU	1452	-20.993	-24.803	61.243	1.00	36.84
ATOM	9455	CH	GLU	1452	-20.681	-26.113	60.486	1.00	41.03
ATOM	9456	CH2	GLU	1452	-21.632	-26.293	60.389	1.00	42.11
ATOM	9457	CH3	GLU	1452	-19.483	-26.111	60.296	1.00	43.67
ATOM	9458	C	GLU	1452	-26.945	-22.946	63.444	1.00	34.23
ATOM	9459	O	GLU	1452	-22.194	-22.331	63.214	1.00	33.52
ATOM	9460	N	PRO	1453	-20.312	-22.486	64.653	1.00	34.45
ATOM	9461	CA	PRO	1453	-21.297	-23.335	65.813	1.00	35.93
ATOM	9462	CB	PRO	1453	-20.424	-23.313	66.861	1.00	36.45
ATOM	9463	CG	PRO	1453	-20.068	-25.293	66.313	1.00	37.52
ATOM	9464	C	PRO	1453	-21.638	-21.734	66.313	1.00	35.30
ATOM	9465	CH	PRO	1453	-23.490	-21.693	67.269	1.00	35.39
ATOM	9466	N	GLY	1454	-20.959	-20.277	65.923	1.00	33.14
ATOM	9467	CA	GLY	1454	-21.267	-19.403	66.401	1.00	31.40
ATOM	9468	C	GLY	1454	-20.441	-19.042	67.624	1.00	31.91
ATOM	9469	O	GLY	1454	-20.491	-17.986	68.106	1.00	31.65
ATOM	9470	N	VAL	1455	-19.680	-20.003	69.131	1.00	32.10
ATOM	9471	CA	VAL	1455	-18.828	-19.281	69.298	1.00	31.24
ATOM	9472	CB	VAL	1455	-17.930	-21.009	69.580	1.00	31.35
ATOM	9473	CG1	VAL	1455	-17.034	-20.275	70.177	1.00	32.27
ATOM	9474	CG2	VAL	1455	-18.787	-22.241	69.820	1.00	33.67
ATOM	9475	C	VAL	1455	-17.929	-18.573	69.031	1.00	30.78
ATOM	9476	O	VAL	1455	-17.739	-17.212	69.905	1.00	30.55
ATOM	9477	N	TYR	1456	-17.410	-18.560	67.815	1.00	28.80
ATOM	9478	CA	TYR	1456	-16.545	-17.461	67.405	1.00	27.94
ATOM	9479	CB	TYR	1456	-15.157	-17.935	67.011	1.00	26.12
ATOM	9480	CG	TYR	1456	-14.226	-16.846	66.551	1.00	23.34
ATOM	9481	CD1	TYR	1456	-13.651	-15.950	67.455	1.00	22.92
ATOM	9482	CE1	TYR	1456	-12.873	-14.883	66.995	1.00	22.74
ATOM	9483	CD2	TYR	1456	-13.989	-16.652	65.169	1.00	24.91
ATOM	9484	CE2	TYR	1456	-13.212	-15.585	64.718	1.00	22.93

ATOM	9385	CH	TYR	1456	-12.663	-14.134	65.664	1.00	23.90
ATOM	9386	CH	TYR	1456	-11.936	-13.618	65.174	1.00	24.81
ATOM	9387	C	TYR	1456	-17.155	-13.871	65.126	1.00	27.24
ATOM	9388	C	TYR	1456	-17.616	-17.303	65.178	1.00	27.23
ATOM	9389	N	PRO	1457	-17.178	-13.338	65.142	1.00	28.34
ATOM	9390	CD	PRO	1457	-17.476	-14.508	65.083	1.00	29.55
ATOM	9391	CE	PRO	1457	-16.660	-14.494	65.651	1.00	29.57
ATOM	9392	OE	PRO	1457	-16.370	-15.167	66.638	1.00	29.55
ATOM	9393	OC	PRO	1457	-17.442	-15.165	65.600	1.00	31.60
ATOM	9394	C	PRO	1457	-17.634	-14.328	64.489	1.00	31.24
ATOM	9395	O	PRO	1457	-18.850	-14.454	63.833	1.00	31.53
ATOM	9396	N	GLY	1458	-17.085	-14.081	70.683	1.00	31.09
ATOM	9397	CA	GLY	1458	-17.911	-13.393	70.664	1.00	32.07
ATOM	9398	C	GLY	1458	-18.126	-13.429	71.128	1.00	32.59
ATOM	9399	O	GLY	1458	-17.564	-13.583	70.431	1.00	32.41
ATOM	9400	N	GLU	1459	-18.931	-13.108	70.181	1.00	33.02
ATOM	9401	CA	GLU	1459	-18.191	-10.711	70.443	1.00	33.57
ATOM	9402	CB	GLU	1459	-20.174	-10.591	70.616	1.00	35.24
ATOM	9403	CG	GLU	1459	-21.239	-9.536	70.594	1.00	41.27
ATOM	9404	CD	GLU	1459	-21.226	-9.916	70.306	1.00	42.53
ATOM	9405	OE1	GLU	1459	-21.963	-8.546	71.815	1.00	42.59
ATOM	9406	OE2	GLU	1459	-22.278	-10.113	71.354	1.00	44.59
ATOM	9407	C	GLU	1459	-17.888	-10.014	70.795	1.00	44.39
ATOM	9408	C	GLU	1459	-17.763	-8.786	70.633	1.00	44.39
ATOM	9409	N	GLU	1460	-16.910	-10.715	73.271	1.00	33.94
ATOM	9410	CA	GLU	1460	-15.607	-10.212	73.643	1.00	34.54
ATOM	9411	CB	GLU	1460	-14.784	-11.217	74.404	1.00	37.12
ATOM	9412	CG	GLU	1460	-15.592	-13.160	71.331	1.00	41.64
ATOM	9413	CD	GLU	1460	-16.373	-13.213	74.553	1.00	41.05
ATOM	9414	OE1	GLU	1460	-15.745	-14.100	73.961	1.00	43.71
ATOM	9415	OE2	GLU	1460	-17.628	-13.148	74.601	1.00	44.97
ATOM	9416	C	GLU	1460	-14.628	-9.816	72.303	1.00	33.32
ATOM	9417	O	GLU	1460	-13.883	-8.051	72.483	1.00	33.42
ATOM	9418	N	HIS	1461	-15.227	-10.358	71.355	1.00	31.67
ATOM	9419	CA	HIS	1461	-14.571	-10.067	69.966	1.00	30.54
ATOM	9420	CB	HIS	1461	-14.394	-11.366	65.713	1.00	30.83
ATOM	9421	CG	HIS	1461	-13.527	-12.162	70.901	1.00	30.96
ATOM	9422	CD2	HIS	1461	-11.853	-13.633	70.411	1.00	30.87
ATOM	9423	ND1	HIS	1461	-15.234	-12.183	70.433	1.00	31.51
ATOM	9424	HE1	HIS	1461	-11.600	-13.228	71.077	1.00	32.78
ATOM	9425	NE2	HIS	1461	-10.781	-11.134	71.081	1.00	30.95
ATOM	9426	C	HIS	1461	-13.443	-9.169	69.121	1.00	30.10
ATOM	9427	C	HIS	1461	-13.096	-8.851	69.373	1.00	28.36
ATOM	9428	N	SER	1462	-16.573	-8.742	69.677	1.00	29.68
ATOM	9429	CA	SER	1462	-17.426	-7.903	69.962	1.00	31.52
ATOM	9430	CB	SER	1462	-18.930	-8.484	69.111	1.00	28.18
ATOM	9431	CG	SER	1462	-18.956	-8.846	68.726	1.00	31.95
ATOM	9432	C	SER	1462	-17.538	-8.453	69.343	1.00	30.15
ATOM	9433	O	SER	1462	-17.141	-8.161	70.374	1.00	32.68
ATOM	9434	N	PRO	1463	-17.981	-9.350	68.867	1.00	32.31
ATOM	9435	CA	PRO	1463	-18.057	-8.230	69.301	1.00	34.66
ATOM	9436	CB	PRO	1463	-17.864	-8.234	67.834	1.00	32.13
ATOM	9437	CG	PRO	1463	-15.690	-8.355	67.884	1.00	32.15
ATOM	9438	ND1	PRO	1463	-25.454	-4.657	68.951	1.00	32.52
ATOM	9439	HE1	PRO	1463	-14.351	-8.121	68.158	1.00	32.01
ATOM	9440	CB1	PRO	1463	-14.992	-4.910	67.805	1.00	32.54
ATOM	9441	CB	PRO	1463	-15.587	-8.251	67.141	1.00	32.48
ATOM	9442	CG	PRO	1463	-15.157	-4.060	67.401	1.00	32.69
ATOM	9443	C	PRO	1463	-19.513	-8.681	67.207	1.00	32.85
ATOM	9444	O	PRO	1463	-20.420	-4.119	67.488	1.00	32.90
ATOM	9445	N	HIS	1464	-19.727	-8.585	69.741	1.00	33.30
ATOM	9446	CA	HIS	1464	-21.068	-8.053	69.944	1.00	38.80
ATOM	9447	CB	HIS	1464	-21.623	-8.538	71.389	1.00	39.63
ATOM	9448	CG	HIS	1464	-21.854	-4.016	71.343	1.00	40.65
ATOM	9449	CD2	HIS	1464	-21.226	-4.595	71.353	1.00	40.98
ATOM	9450	ND1	HIS	1464	-22.818	-4.644	70.381	1.00	39.94
ATOM	9451	HE1	HIS	1464	-22.776	-5.945	70.213	1.00	40.36
ATOM	9452	NE2	HIS	1464	-21.816	-6.185	71.683	1.00	40.96
ATOM	9453	C	HIS	1464	-21.947	-9.535	64.927	1.00	40.95
ATOM	9454	O	HIS	1464	-21.911	-10.659	68.243	1.00	41.98
ATOM	9455	OXT	HIS	1464	-20.156	-10.038	70.583	1.00	42.55
ATOM	9456	C1	KPL	1465	-8.662	-8.598	56.997	1.00	40.66
ATOM	9457	C2	KPL	1465	-8.408	-8.751	55.651	1.00	40.02
ATOM	9458	C3	KPL	1465	-9.470	-10.212	55.264	1.00	40.28
ATOM	9459	C4	KPL	1465	-10.847	-8.205	55.810	1.00	41.40
ATOM	9460	O1	KPL	1465	-10.844	-6.822	56.181	1.00	42.78
ATOM	9461	C5	KPL	1465	-8.646	-7.947	54.549	1.00	38.37

ATOM	9962	LY	HEI	1463	-8.1107	-8.1131	-8.1045	1.00	8.1067
ATOM	9963	LY	HEI	1465	-8.1068	-8.1168	-8.1153	1.00	8.1159
ATOM	9964	LY	HEI	1465	-8.1611	-9.1157	-8.1049	1.00	8.1162
ATOM	9965	LY	HEI	1465	-8.1578	-7.5841	-8.1131	1.00	8.1135
ATOM	9966	LY	MET	1501	12.4451	-15.5881	-7.1377	1.00	8.1445
ATOM	9967	LY	MET	1501	12.4883	-15.5881	-7.1377	1.00	8.1478
ATOM	9968	LY	MET	1501	14.5555	-15.814	-8.1444	1.00	7.1421
ATOM	9969	LY	MET	1501	15.640	-14.279	-8.1481	1.00	7.159
ATOM	9970	LY	MET	1501	14.232	-26.666	-8.1175	1.00	6.1443
ATOM	9971	LY	MET	1501	13.943	-27.114	-8.1343	1.00	6.1433
ATOM	9972	LY	MET	1501	14.252	-24.188	-8.666	1.00	6.146
ATOM	9973	LY	MET	1501	13.464	-25.195	-8.390	1.00	6.634
ATOM	9974	LY	LYS	1502	15.270	-26.591	-4.351	1.00	6.142
ATOM	9975	LY	LYS	1502	16.117	-27.696	-4.667	1.00	6.651
ATOM	9976	LY	LYS	1502	17.806	-27.493	-4.719	1.00	6.146
ATOM	9977	LY	LYS	1502	17.484	-27.265	-6.119	1.00	6.634
ATOM	9978	LY	LYS	1502	16.747	-28.114	-6.992	1.00	6.631
ATOM	9979	LY	LYS	1502	17.479	-29.641	-6.801	1.00	6.631
ATOM	9980	LY	LYS	1502	16.746	-30.731	-7.593	1.00	6.630
ATOM	9981	LY	LYS	1502	17.286	-27.898	-6.567	1.00	6.549
ATOM	9982	LY	LYS	1502	16.023	-29.649	-6.083	1.00	6.698
ATOM	9983	LY	PRO	1503	16.773	-26.918	-1.795	1.00	6.121
ATOM	9984	LY	PRO	1503	16.674	-27.602	-0.313	1.00	4.969
ATOM	9985	LY	CA	1503	17.082	-28.554	-2.213	1.00	4.631
ATOM	9986	LY	CA	1503	16.764	-24.739	-0.913	1.00	4.838
ATOM	9987	LY	CA	1503	17.226	-25.653	0.112	1.00	4.941
ATOM	9988	LY	CA	1503	18.558	-25.434	-2.610	1.00	4.237
ATOM	9989	LY	CA	1503	17.337	-26.569	-2.433	1.00	4.164
ATOM	9990	LY	THR	1504	18.925	-24.274	-3.142	1.00	7.750
ATOM	9991	LY	THR	1504	20.362	-24.024	-3.565	1.00	7.310
ATOM	9992	LY	THR	1504	20.375	-22.784	-4.485	1.00	7.253
ATOM	9993	LY	THR	1504	19.578	-23.611	-5.613	1.00	7.315
ATOM	9994	LY	THR	1504	21.608	-22.502	-4.905	1.00	7.959
ATOM	9995	LY	THR	1504	21.150	-23.805	-2.342	1.00	7.199
ATOM	9996	LY	THR	1504	20.826	-23.069	-1.415	1.00	7.950
ATOM	9997	LY	THR	1504	21.354	-24.446	-2.332	1.00	7.078
ATOM	9998	LY	THR	1504	23.171	-24.304	-1.208	1.00	7.965
ATOM	9999	LY	THR	1504	21.404	-23.619	-0.369	1.00	7.965
ATOM	10000	LY	THR	1504	21.894	-26.674	-1.158	1.00	7.133
ATOM	10001	LY	THR	1504	21.899	-26.019	0.036	1.00	7.912
ATOM	10002	LY	THR	1504	24.495	-24.014	-1.659	1.00	7.940
ATOM	10003	LY	THR	1504	21.006	-24.016	-0.850	1.00	7.732
ATOM	10004	LY	ILE	1505	21.751	-23.108	-0.691	1.00	7.978
ATOM	10005	LY	ILE	1505	26.951	-23.591	-0.955	1.00	7.015
ATOM	10006	LY	ILE	1505	27.523	-23.108	0.331	1.00	7.162
ATOM	10007	LY	ILE	1505	29.121	-22.597	-0.013	1.00	7.067
ATOM	10008	LY	ILE	1505	28.764	-22.585	1.161	1.00	7.155
ATOM	10009	LY	ILE	1505	27.491	-21.896	2.556	1.00	7.342
ATOM	10010	LY	ILE	1505	27.555	-24.568	-1.705	1.00	7.017
ATOM	10011	LY	ILE	1505	28.571	-24.394	-2.491	1.00	7.044
ATOM	10012	LY	SER	1506	27.507	-25.785	-1.441	1.00	7.178
ATOM	10013	LY	SER	1506	27.507	-26.390	2.059	1.00	7.345
ATOM	10014	LY	SER	1506	28.775	-28.176	-1.646	1.00	7.453
ATOM	10015	LY	SER	1506	28.538	-28.258	-0.238	1.00	7.975
ATOM	10016	LY	SEP	1507	27.559	-26.889	2.586	1.00	7.348
ATOM	10017	LY	SEP	1507	28.551	-27.785	-4.234	1.00	7.348
ATOM	10018	LY	LEU	1508	27.475	-26.383	-4.173	1.00	7.149
ATOM	10019	LY	LEU	1508	26.361	-26.242	-5.581	1.00	7.230
ATOM	10020	LY	LEU	1508	24.937	-25.710	-5.958	1.00	7.412
ATOM	10021	LY	LEU	1508	24.631	-26.678	-6.701	1.00	7.676
ATOM	10022	LY	LEU	1508	22.834	-25.992	-6.951	1.00	7.600
ATOM	10023	LY	LEU	1508	24.681	-25.114	-8.009	1.00	7.658
ATOM	10024	LY	LEU	1508	27.420	-25.307	-6.156	1.00	7.190
ATOM	10025	LY	LEU	1508	28.612	-25.597	-7.196	1.00	7.266
ATOM	10026	LY	LEU	1508	27.659	-24.187	-5.482	1.00	7.971
ATOM	10027	LY	LEU	1508	28.646	-25.226	-5.959	1.00	7.954
ATOM	10028	LY	LEU	1508	28.595	-21.946	-5.116	1.00	7.954
ATOM	10029	LY	LEU	1508	27.155	-21.212	-5.105	1.00	7.915
ATOM	10030	LY	LEU	1508	27.350	-19.898	-4.383	1.00	7.053
ATOM	10031	LY	LEU	1508	26.748	-21.011	-6.535	1.00	7.887
ATOM	10032	LY	LEU	1508	30.044	-25.830	-5.927	1.00	7.018
ATOM	10033	LY	LEU	1508	30.875	-23.559	-6.799	1.00	7.772
ATOM	10034	LY	GLN	1510	30.294	-24.658	-4.920	1.00	7.060
ATOM	10035	LY	CA	1510	31.587	-25.308	-4.779	1.00	7.289
ATOM	10036	LY	GLN	1510	31.674	-26.008	-3.419	1.00	7.223
ATOM	10037	LY	GLN	1510	33.959	-26.521	-3.051	1.00	7.403
ATOM	10038	LY	GLN	1510	34.147	-25.452	-3.146	1.00	7.552

ATOM	10039	HE1	GLN	1510	24.673	-25.187	-4.111	1.00	36.17
ATOM	10040	HE2	GLN	1510	24.412	-24.904	-4.111	1.00	36.16
ATOM	10041	C	GLN	1510	21.747	-26.412	-5.416	1.00	34.79
ATOM	10042	O	GLN	1510	21.812	-26.537	-6.466	1.00	34.79
ATOM	10043	N	LYS	1511	20.636	-27.900	-6.445	1.00	35.14
ATOM	10044	CA	LYS	1511	20.659	-27.864	-7.447	1.00	35.08
ATOM	10045	CB	LYS	1511	19.209	-28.574	-7.574	1.00	35.13
ATOM	10046	CG	LYS	1511	19.149	-29.367	-8.455	1.00	35.56
ATOM	10047	CD	LYS	1511	17.711	-29.594	-9.153	1.00	35.87
ATOM	10048	CE	LYS	1511	16.973	-30.517	-9.299	1.00	35.60
ATOM	10049	NZ	LYS	1511	15.576	-30.676	-9.636	1.00	35.60
ATOM	10050	C	LEU	1511	20.845	-27.127	-6.740	1.00	35.49
ATOM	10051	O	LEU	1511	21.604	-27.619	-7.833	1.00	35.12
ATOM	10052	N	TYR	1512	20.311	-25.942	-6.859	1.00	35.34
ATOM	10053	CA	TYR	1512	20.540	-25.141	-7.102	1.00	35.65
ATOM	10054	CB	TYR	1512	18.639	-23.700	-7.053	1.00	35.18
ATOM	10055	CG	TYR	1512	18.113	-24.138	-7.213	1.00	35.10
ATOM	10056	CD	TYR	1512	17.216	-23.175	-7.051	1.00	35.66
ATOM	10057	HE1	TYR	1512	15.849	-21.429	-7.135	1.00	32.63
ATOM	10058	HE2	TYR	1512	17.749	-23.443	-7.523	1.00	33.61
ATOM	10059	HE3	TYR	1512	16.341	-23.174	-7.673	1.00	31.19
ATOM	10060	CE	TYR	1512	15.440	-24.013	-7.506	1.00	32.07
ATOM	10061	CH	TYR	1512	14.115	-24.963	-7.646	1.00	33.56
ATOM	10062	C	TYR	1512	12.042	-24.716	-7.729	1.00	36.33
ATOM	10063	O	TYR	1512	12.472	-24.771	-7.457	1.00	34.44
ATOM	10064	N	LYS	1513	22.604	-24.177	-6.274	1.00	35.91
ATOM	10065	CA	LYS	1513	24.004	-23.856	-6.426	1.00	35.24
ATOM	10066	CB	LYS	1513	24.846	-23.562	-6.090	1.00	35.07
ATOM	10067	CG	LYS	1513	26.146	-23.108	-5.136	1.00	32.25
ATOM	10068	CD	LYS	1513	26.544	-22.091	-5.026	1.00	31.84
ATOM	10069	CE	LYS	1513	28.043	-21.848	-4.136	1.00	30.35
ATOM	10070	NZ	LYS	1513	28.343	-20.591	-4.523	1.00	29.60
ATOM	10071	C	LEU	1513	24.947	-25.022	-6.954	1.00	38.69
ATOM	10072	O	LEU	1513	25.876	-24.829	-7.164	1.00	39.24
ATOM	10073	N	GLN	1514	24.517	-26.131	-6.567	1.00	40.60
ATOM	10074	CA	GLN	1514	25.245	-27.433	-6.945	1.00	41.38
ATOM	10075	CB	GLN	1514	24.713	-28.623	-7.121	1.00	45.35
ATOM	10076	CG	GLN	1514	25.117	-28.585	-7.710	1.00	48.35
ATOM	10077	CD	GLN	1514	24.441	-29.604	-8.855	1.00	49.83
ATOM	10078	HE1	GLN	1514	24.111	-30.669	-9.343	1.00	51.13
ATOM	10079	HE2	GLN	1514	24.311	-29.304	-9.570	1.00	50.45
ATOM	10080	C	GLN	1514	24.946	-27.704	-11.470	1.00	41.74
ATOM	10081	O	GLN	1514	25.810	-29.138	-11.250	1.00	44.54
ATOM	10082	N	GLU	1515	23.710	-27.438	-11.362	1.00	41.32
ATOM	10083	CA	GLU	1515	23.339	-27.617	-11.231	1.00	41.19
ATOM	10084	CB	GLU	1515	21.810	-27.933	-11.334	1.00	44.55
ATOM	10085	CG	GLU	1515	21.311	-29.041	-11.502	1.00	48.62
ATOM	10086	CD	GLU	1515	20.949	-29.430	-11.773	1.00	48.59
ATOM	10087	HE1	GLU	1515	20.911	-28.505	-11.825	1.00	48.59
ATOM	10088	HE2	GLU	1515	20.810	-30.637	-11.327	1.00	51.43
ATOM	10089	C	GLU	1515	23.816	-26.417	-13.136	1.00	41.44
ATOM	10090	O	GLU	1515	23.418	-26.706	-13.343	1.00	41.16
ATOM	10091	N	LEU	1516	24.115	-29.405	-11.446	1.00	40.71
ATOM	10092	CA	LEU	1516	24.843	-24.132	-11.175	1.00	37.56
ATOM	10093	CB	LEU	1516	25.845	-24.439	-11.132	1.00	41.50
ATOM	10094	CG	LEU	1516	26.045	-23.511	-11.753	1.00	41.51
ATOM	10095	CD	LEU	1516	27.014	-24.335	-11.713	1.00	45.19
ATOM	10096	CE	LEU	1516	26.904	-24.545	-11.446	1.00	46.49
ATOM	10097	NZ	LEU	1516	29.910	-24.611	-13.670	1.00	48.49
ATOM	10098	C	LEU	1516	23.408	-23.475	-13.729	1.00	38.14
ATOM	10099	O	LEU	1516	23.512	-22.781	-13.745	1.00	38.51
ATOM	10100	N	LYS	1517	22.219	-23.127	-11.170	1.00	35.26
ATOM	10101	CA	LYS	1517	21.013	-23.116	-13.630	1.00	33.69
ATOM	10102	CB	LYS	1517	19.847	-24.044	-13.385	1.00	34.32
ATOM	10103	CG	LYS	1517	18.447	-23.587	-13.904	1.00	35.09
ATOM	10104	CD	LYS	1517	17.382	-24.446	-13.384	1.00	35.44
ATOM	10105	CE	LYS	1517	17.483	-25.896	-13.832	1.00	36.19
ATOM	10106	NZ	LYS	1517	16.113	-26.177	-14.131	1.00	41.56
ATOM	10107	C	LYS	1517	20.745	-21.823	-14.878	1.00	41.65
ATOM	10108	O	LYS	1517	20.366	-21.836	-14.715	1.00	41.00
ATOM	10109	N	ARG	1518	21.018	-20.104	-13.546	1.00	36.53
ATOM	10110	CA	ARG	1518	20.846	-19.399	-13.929	1.00	38.45
ATOM	10111	CB	ARG	1518	21.462	-18.119	-14.805	1.00	36.06
ATOM	10112	CG	ARG	1518	22.961	-18.306	-14.714	1.00	31.46
ATOM	10113	CD	ARG	1518	23.626	-17.421	-15.766	1.00	33.23
ATOM	10114	NE	ARG	1518	23.666	-18.071	-17.074	1.00	45.53
ATOM	10115	CZ	ARG	1518	24.192	-17.523	-18.165	1.00	36.48

ATOM	10116	NR1	ARG	1518	34.177	-18.137	-18.117	1.00	34.15
ATOM	10117	NR2	ARG	1518	34.192	-18.134	-18.108	1.00	34.173
ATOM	10118	C	ARG	1518	29.340	-18.137	-18.095	1.00	29.36
ATOM	10119	O	ARG	1518	25.518	-18.134	-18.095	1.00	25.43
ATOM	10120	N	THR	1519	28.008	-18.776	-12.451	1.00	28.021
ATOM	10121	CA	THR	1519	27.835	-18.518	-12.656	1.00	27.80
ATOM	10122	CB	THR	1519	27.843	-18.397	-12.841	1.00	27.84
ATOM	10123	CG	THR	1519	28.151	-18.155	-12.646	1.00	28.05
ATOM	10124	CD1	THR	1519	27.839	-18.085	-12.755	1.00	27.83
ATOM	10125	CD2	THR	1519	29.711	-18.851	-12.418	1.00	29.57
ATOM	10126	CE1	THR	1519	28.850	-17.800	-12.666	1.00	28.88
ATOM	10127	CE2	THR	1519	30.712	-18.575	-12.847	1.00	30.44
ATOM	10128	CZ	THR	1519	29.710	-18.547	-12.457	1.00	29.58
ATOM	10129	C	THR	1519	27.856	-17.948	-11.738	1.00	27.85
ATOM	10130	O	THR	1519	28.138	-18.314	-11.310	1.00	28.07
ATOM	10131	N	ALA	1520	26.113	-18.627	-11.944	1.00	26.14
ATOM	10132	CA	ALA	1520	25.712	-18.250	-11.677	1.00	25.80
ATOM	10133	CB	ALA	1520	24.835	-18.747	-12.822	1.00	24.77
ATOM	10134	C	ALA	1520	24.981	-18.088	-10.332	1.00	24.92
ATOM	10135	O	ALA	1520	24.141	-18.980	-9.946	1.00	24.13
ATOM	10136	N	THR	1521	25.130	-18.972	-9.638	1.00	25.21
ATOM	10137	CA	THR	1521	24.632	-18.663	-9.406	1.00	24.68
ATOM	10138	CB	THR	1521	25.818	-18.736	-9.219	1.00	25.78
ATOM	10139	CG1	THR	1521	26.184	-18.070	-9.183	1.00	26.14
ATOM	10140	CG2	THR	1521	24.967	-18.386	-9.934	1.00	24.96
ATOM	10141	C	THR	1521	24.630	-18.250	-8.445	1.00	24.68
ATOM	10142	O	THR	1521	24.485	-18.475	-9.340	1.00	24.51
ATOM	10143	N	ILE	1522	25.843	-18.942	-7.666	1.00	25.85
ATOM	10144	CA	ILE	1522	27.477	-18.616	-7.716	1.00	27.48
ATOM	10145	CB	ILE	1522	21.172	-18.684	-8.718	1.00	21.13
ATOM	10146	CG2	ILE	1522	20.843	-18.381	-8.084	1.00	20.89
ATOM	10147	CG1	ILE	1522	20.848	-18.214	-9.135	1.00	20.80
ATOM	10148	CD1	ILE	1522	21.865	-18.650	-10.184	1.00	21.84
ATOM	10149	C	ILE	1522	21.914	-18.181	-8.386	1.00	21.91
ATOM	10150	O	ILE	1522	21.881	-18.926	-8.445	1.00	21.87
ATOM	10151	N	THR	1523	21.475	-18.818	-8.237	1.00	21.54
ATOM	10152	CA	THR	1523	21.871	-18.289	-8.982	1.00	21.89
ATOM	10153	CB	THR	1523	21.875	-18.859	-8.677	1.00	21.86
ATOM	10154	CG1	THR	1523	21.873	-18.918	-8.678	1.00	21.89
ATOM	10155	CG2	THR	1523	23.775	-18.828	-8.680	1.00	23.73
ATOM	10156	C	THR	1523	19.888	-18.218	-8.085	1.00	19.82
ATOM	10157	O	THR	1523	19.110	-18.196	-8.116	1.00	19.19
ATOM	10158	N	ALA	1524	19.131	-18.413	-8.933	1.00	19.13
ATOM	10159	CA	ALA	1524	17.875	-18.180	-8.839	1.00	17.80
ATOM	10160	CB	ALA	1524	17.882	-18.650	-8.111	1.00	17.88
ATOM	10161	C	ALA	1524	17.138	-18.759	-8.538	1.00	17.10
ATOM	10162	O	ALA	1524	17.843	-18.102	-8.517	1.00	17.80
ATOM	10163	N	TYR	1525	16.134	-18.948	-8.438	1.00	16.12
ATOM	10164	CA	TYR	1525	15.813	-18.846	-8.110	1.00	15.80
ATOM	10165	CB	TYR	1525	16.197	-18.866	-8.112	1.00	16.13
ATOM	10166	CG	TYR	1525	15.833	-18.846	-8.718	1.00	15.86
ATOM	10167	CD1	TYR	1525	15.717	-18.174	-8.076	1.00	15.68
ATOM	10168	CD2	TYR	1525	18.838	-18.004	-8.618	1.00	18.85
ATOM	10169	CE1	TYR	1525	18.820	-18.851	-8.079	1.00	18.82
ATOM	10170	CE2	TYR	1525	20.784	-18.581	-8.677	1.00	20.69
ATOM	10171	CE3	TYR	1525	21.607	-18.101	-8.938	1.00	21.54
ATOM	10172	CE4	TYR	1525	21.811	-18.817	-8.511	1.00	21.82
ATOM	10173	C	TYR	1525	14.865	-18.555	-8.907	1.00	14.91
ATOM	10174	O	TYR	1525	18.808	-18.714	-8.003	1.00	18.83
ATOM	10175	N	ASP	1526	18.775	-18.681	-8.839	1.00	18.73
ATOM	10176	CA	ASP	1526	17.139	-18.121	-8.602	1.00	17.16
ATOM	10177	CB	ASP	1526	11.434	-18.901	-8.315	1.00	11.53
ATOM	10178	CG	ASP	1526	11.815	-18.846	-8.835	1.00	11.88
ATOM	10179	OD1	ASP	1526	10.948	-18.672	-8.543	1.00	10.98
ATOM	10180	OD2	ASP	1526	12.553	-18.965	-8.311	1.00	12.59
ATOM	10181	C	ASP	1526	11.774	-18.412	-8.237	1.00	11.83
ATOM	10182	O	ASP	1526	12.150	-18.088	-8.071	1.00	12.18
ATOM	10183	N	TYR	1527	10.843	-18.741	-8.918	1.00	10.83
ATOM	10184	CA	TYR	1527	9.648	-18.941	-8.337	1.00	9.66
ATOM	10185	CB	TYR	1527	8.748	-18.987	-8.778	1.00	8.77
ATOM	10186	CG	TYR	1527	7.738	-18.037	-8.338	1.00	7.74
ATOM	10187	CD1	TYR	1527	7.352	-18.348	-8.925	1.00	7.32
ATOM	10188	CE1	TYR	1527	6.527	-18.321	-8.484	1.00	6.50
ATOM	10189	CE2	TYR	1527	6.468	-18.718	-8.437	1.00	6.45
ATOM	10190	CE3	TYR	1527	5.637	-18.688	-8.007	1.00	5.64
ATOM	10191	CZ	TYR	1527	5.677	-18.987	-8.519	1.00	5.68
ATOM	10192	CH	TYR	1527	4.875	-18.965	-8.069	1.00	4.87

ATOM	10193	C	TYR	1527	-8.503	-10.1652	-8.501	1.00	14.77
ATOM	10194	C	TYR	1527	9.766	-11.102	-8.488	1.00	14.77
ATOM	10195	N	SER	1528	9.057	-8.974	-4.543	1.00	14.41
ATOM	10196	CA	SEP	1529	8.825	-9.091	-5.765	1.00	15.84
ATOM	10197	CB	PHE	1528	8.203	-7.687	-6.411	1.00	14.36
ATOM	10198	CG	PHE	1528	6.922	-7.501	-5.801	1.00	14.89
ATOM	10199	C	SER	1528	10.041	-8.324	-6.836	1.00	15.31
ATOM	10200	O	SER	1528	9.991	-10.129	-7.855	1.00	15.85
ATOM	10201	N	PHE	1529	11.139	-8.609	-6.616	1.00	15.52
ATOM	10202	CA	PHE	1529	12.315	-8.926	-7.410	1.00	14.35
ATOM	10203	CB	PHE	1529	13.359	-7.817	-7.299	1.00	12.97
ATOM	10204	CG	PHE	1529	13.042	-6.784	-6.215	1.00	14.39
ATOM	10205	CD1	PHE	1529	12.474	-5.511	-7.747	1.00	15.63
ATOM	10206	CD2	PHE	1529	13.413	-6.743	-6.560	1.00	15.32
ATOM	10207	CE1	PHE	1529	12.207	-4.449	-8.609	1.00	15.64
ATOM	10208	CE2	PHE	1529	13.133	-5.695	-10.412	1.00	14.87
ATOM	10209	CZ	PHE	1529	12.564	-4.529	-9.953	1.00	17.73
ATOM	10210	C	PHE	1529	12.909	-10.273	-7.038	1.00	17.50
ATOM	10211	O	PHE	1529	13.384	-11.010	-7.908	1.00	14.17
ATOM	10212	N	ALA	1530	12.865	-10.628	-5.757	1.00	17.35
ATOM	10213	CA	ALA	1530	13.395	-11.925	-5.337	1.00	17.28
ATOM	10214	CB	ALA	1530	13.261	-12.083	-3.619	1.00	11.40
ATOM	10215	C	ALA	1530	12.649	-13.050	-6.050	1.00	21.09
ATOM	10216	O	ALA	1530	13.242	-14.093	-6.546	1.00	14.85
ATOM	10217	N	LYS	1531	11.315	-12.931	-6.987	1.00	15.26
ATOM	10218	CA	LYS	1531	10.478	-13.328	-6.728	1.00	14.54
ATOM	10219	CB	LYS	1531	8.991	-13.535	-6.525	1.00	15.21
ATOM	10220	CG	LYS	1531	7.913	-14.125	-7.195	1.00	16.57
ATOM	10221	CD	LYS	1531	7.576	-15.623	-6.365	1.00	24.21
ATOM	10222	CE	LYS	1531	6.192	-16.116	-6.781	1.00	25.02
ATOM	10223	NZ	LYS	1531	6.169	-16.393	-8.238	1.00	23.58
ATOM	10224	C	LYS	1531	10.773	-14.020	-8.221	1.00	15.65
ATOM	10225	O	LYS	1531	10.854	-15.114	-8.787	1.00	13.34
ATOM	10226	N	LEU	1532	10.941	-12.863	-8.857	1.00	15.51
ATOM	10227	CA	LEU	1532	11.238	-12.793	-10.285	1.00	15.37
ATOM	10228	CB	LEU	1532	11.295	-11.326	-10.727	1.00	18.67
ATOM	10229	CG	LEU	1532	11.485	-11.051	-12.235	1.00	13.94
ATOM	10230	CD1	LEU	1532	11.169	-9.614	-12.551	1.00	18.17
ATOM	10231	CD2	LEU	1532	12.957	-11.316	-12.617	1.00	18.81
ATOM	10232	C	LEU	1532	12.515	-13.507	-10.695	1.00	15.94
ATOM	10233	O	LEU	1532	12.612	-14.337	-11.523	1.00	14.14
ATOM	10234	N	PHE	1533	13.634	-13.291	-9.844	1.00	16.77
ATOM	10235	CA	PHE	1533	14.905	-13.821	-10.063	1.00	16.93
ATOM	10236	CB	PHE	1533	15.965	-13.348	-9.166	1.00	16.09
ATOM	10237	CG	PHE	1533	16.168	-11.762	-9.227	1.00	16.65
ATOM	10238	CD1	PHE	1533	15.901	-11.112	-10.446	1.00	18.16
ATOM	10239	CD2	PHE	1533	16.564	-11.011	-8.118	1.00	14.43
ATOM	10240	CE1	PHE	1533	16.117	-9.771	-10.564	1.00	18.81
ATOM	10241	CE2	PHE	1533	16.754	-9.631	-8.223	1.00	16.25
ATOM	10242	CZ	PHE	1533	16.549	-8.991	-9.443	1.00	15.42
ATOM	10243	C	PHE	1533	14.814	-15.337	-9.852	1.00	17.37
ATOM	10244	O	PHE	1533	15.217	-16.112	-10.639	1.00	17.41
ATOM	10245	N	ALA	1534	14.217	-15.745	-8.742	1.00	17.45
ATOM	10246	CA	ALA	1534	14.085	-15.559	-8.415	1.00	16.83
ATOM	10247	CB	ALA	1534	13.479	-15.337	-7.574	1.00	13.45
ATOM	10248	C	ALA	1534	13.116	-17.863	-6.532	1.00	11.04
ATOM	10249	O	ALA	1534	13.816	-16.185	-9.817	1.00	16.41
ATOM	10250	N	ASP	1535	12.318	-15.247	-10.085	1.00	22.15
ATOM	10251	CA	ASP	1535	11.550	-15.896	-11.121	1.00	22.54
ATOM	10252	CB	ASP	1535	10.713	-15.169	-11.387	1.00	14.94
ATOM	10253	CG	ASP	1535	9.228	-17.161	-10.259	1.00	26.10
ATOM	10254	OD1	ASP	1535	9.260	-18.268	-9.553	1.00	29.47
ATOM	10255	OD2	ASP	1535	8.398	-16.352	-10.093	1.00	30.35
ATOM	10256	C	ASP	1535	12.287	-18.047	-12.447	1.00	22.47
ATOM	10257	O	ASP	1535	11.874	-18.825	-13.296	1.00	22.23
ATOM	10258	N	GLU	1536	13.366	-17.311	-12.617	1.00	22.56
ATOM	10259	CA	GLU	1536	14.187	-17.467	-13.828	1.00	23.73
ATOM	10260	CB	GLU	1536	14.678	-16.024	-14.728	1.00	23.59
ATOM	10261	CG	GLU	1536	13.583	-15.086	-14.756	1.00	25.82
ATOM	10262	CD	GLU	1536	12.706	-15.718	-15.814	1.00	26.18
ATOM	10263	OE1	GLU	1536	13.256	-16.349	-16.739	1.00	25.95
ATOM	10264	OE2	GLU	1536	11.459	-15.575	-15.718	1.00	26.71
ATOM	10265	C	GLU	1536	15.397	-18.325	-13.672	1.00	24.75
ATOM	10266	O	GLU	1536	15.973	-18.784	-14.654	1.00	26.28
ATOM	10267	N	GLY	1537	15.797	-18.583	-12.433	1.00	25.87
ATOM	10268	CA	GLY	1537	16.944	-19.447	-12.323	1.00	25.64
ATOM	10269	C	GLY	1537	18.037	-18.855	-11.356	1.00	24.92

ATOM	10270	C	HEU	1938	18.493	-1.0328	-10.881	1.00	16.48
ATOM	10271	N	HEU	1938	18.414	-1.1540	-11.148	1.00	14.92
ATOM	10272	CA	HEU	1938	19.015	-1.6872	-10.705	1.00	14.22
ATOM	10273	CI	HEU	1938	19.534	-1.3356	-11.488	1.00	14.47
ATOM	10274	CG	HEU	1938	20.087	-1.1653	-11.703	1.00	16.59
ATOM	10275	CD1	HEU	1938	19.976	-1.1170	-11.798	1.00	14.30
ATOM	10276	CD2	HEU	1938	21.407	-1.1879	-10.477	1.00	15.08
ATOM	10277	C	HEU	1938	18.683	-1.1213	-8.867	1.00	14.34
ATOM	10278	O	HEU	1938	17.831	-1.5180	-8.243	1.00	13.67
ATOM	10279	N	ASN	1939	19.373	-1.1235	-8.349	1.00	14.14
ATOM	10280	CA	ASN	1939	19.146	-1.7710	-6.985	1.00	14.07
ATOM	10281	CB	ASN	1939	19.141	-2.1176	-6.991	1.00	15.41
ATOM	10282	CG	ASN	1939	18.057	-2.1847	-7.877	1.00	19.37
ATOM	10283	OD1	ASN	1939	16.946	-2.1513	-7.935	1.00	11.66
ATOM	10284	OD2	ASN	1939	18.367	-2.1946	-8.560	1.00	12.41
ATOM	10285	C	ASN	1939	20.129	-1.1246	-9.305	1.00	11.17
ATOM	10286	O	ASN	1939	20.103	-1.6715	-4.787	1.00	12.17
ATOM	10287	N	VAL	1940	20.473	-1.1703	-6.219	1.00	18.19
ATOM	10288	CA	VAL	1940	21.923	-1.6718	-5.215	1.00	17.11
ATOM	10289	CB	VAL	1940	23.341	-1.1643	-5.672	1.00	16.77
ATOM	10290	CG1	VAL	1940	24.331	-1.6576	-4.558	1.00	19.43
ATOM	10291	CG2	VAL	1940	23.641	-1.5517	-5.941	1.00	17.44
ATOM	10292	C	VAL	1940	21.697	-1.1284	-5.101	1.00	15.46
ATOM	10293	O	VAL	1940	21.991	-1.6547	-6.113	1.00	14.11
ATOM	10294	N	MET	1941	21.011	-1.6845	-4.008	1.00	14.44
ATOM	10295	CA	MET	1941	20.921	-1.5437	-3.815	1.00	14.69
ATOM	10296	CB	MET	1941	19.408	-1.1236	-3.696	1.00	16.10
ATOM	10297	CG	MET	1941	18.661	-1.1438	-4.990	1.00	17.44
ATOM	10298	SD	MET	1941	16.997	-1.5405	-4.789	1.00	18.44
ATOM	10299	CE	MET	1941	16.465	-1.1608	-5.443	1.00	17.63
ATOM	10300	C	MET	1941	21.577	-1.1869	-2.586	1.00	14.11
ATOM	10301	O	MET	1941	21.777	-1.1564	-1.587	1.00	15.11
ATOM	10302	N	LEU	1942	21.888	-1.1535	-2.656	1.00	14.50
ATOM	10303	CA	LEU	1942	22.513	-1.0970	-1.537	1.00	13.41
ATOM	10304	CB	LEU	1942	21.997	-1.1517	-1.923	1.00	16.15
ATOM	10305	CG	LEU	1942	24.174	-1.1713	-0.981	1.00	22.67
ATOM	10306	CD1	LEU	1942	24.655	-1.1278	-1.204	1.00	25.11
ATOM	10307	CD2	LEU	1942	24.678	-1.1149	-0.481	1.00	19.13
ATOM	10308	C	LEU	1942	21.706	-1.1713	-1.077	1.00	11.63
ATOM	10309	O	LEU	1942	21.418	-1.1613	-1.860	1.00	11.89
ATOM	10310	N	VAL	1943	21.334	-1.1711	-0.210	1.00	13.63
ATOM	10311	CA	VAL	1943	20.637	-1.1530	-0.805	1.00	12.83
ATOM	10312	CB	VAL	1943	19.580	-1.1033	-1.918	1.00	14.17
ATOM	10313	CG1	VAL	1943	19.017	-1.1611	-2.513	1.00	15.11
ATOM	10314	CG2	VAL	1943	16.773	-1.1009	-1.344	1.00	13.61
ATOM	10315	C	VAL	1943	21.878	-1.1705	-1.377	1.00	14.63
ATOM	10316	O	VAL	1943	22.064	-1.1948	-2.516	1.00	14.61
ATOM	10317	N	GLY	1944	22.760	-1.1613	-0.557	1.00	14.43
ATOM	10318	CA	GLY	1944	21.110	-1.1008	-0.966	1.00	16.43
ATOM	10319	C	GLY	1944	21.770	-1.1513	-1.471	1.00	16.43
ATOM	10320	O	GLY	1944	22.111	-1.1115	-1.267	1.00	17.13
ATOM	10321	N	ASP	1945	24.111	-1.1116	-3.176	1.00	16.83
ATOM	10322	CA	ASP	1945	23.917	-1.1136	-3.770	1.00	16.84
ATOM	10323	CB	ASP	1945	24.800	-1.1434	-3.809	1.00	18.21
ATOM	10324	CC	ASP	1945	26.411	-1.1545	-3.314	1.00	17.19
ATOM	10325	CD1	ASP	1945	26.613	-1.1716	-3.117	1.00	18.19
ATOM	10326	CD2	ASP	1945	25.171	-1.1814	-4.151	1.00	10.17
ATOM	10327	C	ASP	1945	23.910	-1.1535	-1.613	1.00	15.11
ATOM	10328	O	ASP	1945	25.719	-1.1718	-1.866	1.00	17.17
ATOM	10329	N	SER	1946	24.069	-1.1213	-0.313	1.00	15.11
ATOM	10330	CA	SER	1946	23.960	-1.1317	-0.752	1.00	13.63
ATOM	10331	CB	SER	1946	24.113	-1.1016	-2.017	1.00	16.93
ATOM	10332	CG	SER	1946	23.499	-1.1213	-2.157	1.00	16.17
ATOM	10333	C	SER	1946	22.514	-1.1711	-0.725	1.00	15.43
ATOM	10334	O	SER	1946	22.100	-1.1346	-1.289	1.00	16.83
ATOM	10335	N	LEU	1947	21.625	-1.1411	-0.957	1.00	13.61
ATOM	10336	CA	LEU	1947	20.259	-1.1904	-0.033	1.00	13.10
ATOM	10337	CB	LEU	1947	19.159	-1.1801	-0.804	1.00	14.09
ATOM	10338	CG	LEU	1947	19.731	-1.1215	-2.259	1.00	11.97
ATOM	10339	CD1	LEU	1947	19.688	-1.1193	-3.174	1.00	15.63
ATOM	10340	CD2	LEU	1947	19.161	-1.1611	-2.631	1.00	16.19
ATOM	10341	C	LEU	1947	20.149	-1.1411	-0.711	1.00	13.12
ATOM	10342	O	LEU	1947	19.305	-1.1249	-0.556	1.00	12.12
ATOM	10343	N	GLY	1948	21.102	-1.1708	-1.462	1.00	14.17
ATOM	10344	CA	GLY	1948	21.386	-1.1009	-2.128	1.00	13.18
ATOM	10345	C	GLY	1948	21.310	-1.167	-1.129	1.00	15.41
ATOM	10346	O	GLY	1948	20.786	-1.1267	-1.403	1.00	15.17

ATOM	10347	N	MET	1549	21.805	21.814	-0.008	1.00	16.29
ATOM	10348	CA	MET	1549	21.815	21.800	-0.015	1.00	16.79
ATOM	10349	CB	MET	1549	23.198	23.852	-0.654	1.00	18.82
ATOM	10350	CG	MET	1549	24.346	24.147	-0.199	1.00	19.11
ATOM	10351	CD	MET	1549	26.012	25.963	-0.049	1.00	18.68
ATOM	10352	CE	MET	1549	26.138	25.439	-0.699	1.00	17.23
ATOM	10353	C	MET	1549	20.696	20.703	-0.007	1.00	17.66
ATOM	10354	O	MET	1549	19.835	20.627	-0.792	1.00	19.00
ATOM	10355	N	THR	1550	26.567	26.495	-0.072	1.00	17.07
ATOM	10356	CA	THR	1550	19.529	21.224	-1.695	1.00	17.56
ATOM	10357	CB	THR	1550	19.809	20.911	-1.102	1.00	17.76
ATOM	10358	CG1	THR	1550	18.537	20.665	-2.128	1.00	19.04
ATOM	10359	CG2	THR	1550	19.553	-0.219	-1.772	1.00	19.69
ATOM	10360	C	THR	1550	18.103	21.191	-3.088	1.00	17.19
ATOM	10361	O	THR	1550	17.144	21.507	-4.363	1.00	19.51
ATOM	10362	N	VAL	1551	17.949	17.900	-0.049	1.00	16.88
ATOM	10363	CA	VAL	1551	18.616	17.741	-0.875	1.00	15.66
ATOM	10364	CB	VAL	1551	18.417	20.413	-1.996	1.00	16.17
ATOM	10365	CG1	VAL	1551	18.077	20.454	-2.377	1.00	15.49
ATOM	10366	CG2	VAL	1551	18.476	-0.740	-1.452	1.00	17.12
ATOM	10367	C	VAL	1551	18.344	21.919	-3.575	1.00	14.94
ATOM	10368	O	VAL	1551	18.551	23.625	-5.074	1.00	13.06
ATOM	10369	N	GLN	1552	17.231	21.155	-3.924	1.00	13.60
ATOM	10370	CA	GLN	1552	17.041	21.242	-4.201	1.00	13.62
ATOM	10371	CB	GLN	1552	17.857	23.963	-6.106	1.00	14.56
ATOM	10372	CG	GLN	1552	17.589	25.519	-7.930	1.00	15.64
ATOM	10373	CD	GLN	1552	18.298	26.250	-7.952	1.00	14.11
ATOM	10374	OE1	GLN	1552	18.342	28.775	-10.433	1.00	17.01
ATOM	10375	NE2	GLN	1552	17.744	28.372	-10.628	1.00	12.68
ATOM	10376	C	GLN	1552	17.396	25.610	-8.214	1.00	12.57
ATOM	10377	O	GLN	1552	18.852	26.625	-7.773	1.00	13.24
ATOM	10378	N	GLY	1553	18.312	25.643	-7.331	1.00	13.54
ATOM	10379	CA	GLY	1553	18.679	26.914	-8.235	1.00	12.70
ATOM	10380	C	GLY	1553	18.761	27.697	-8.936	1.00	14.01
ATOM	10381	O	GLY	1553	18.952	28.965	-10.013	1.00	14.75
ATOM	10382	N	HIS	1554	20.563	20.599	-0.036	1.00	16.13
ATOM	10383	CA	HIS	1554	21.651	21.655	-0.004	1.00	16.13
ATOM	10384	CB	HIS	1554	21.058	20.870	0.188	1.00	16.68
ATOM	10385	CG	HIS	1554	21.002	20.647	0.355	1.00	16.86
ATOM	10386	CD2	HIS	1554	20.261	25.814	-5.553	1.00	18.27
ATOM	10387	ND1	HIS	1554	20.594	27.344	-6.750	1.00	19.57
ATOM	10388	CE1	HIS	1554	19.654	27.423	-7.769	1.00	21.71
ATOM	10389	NE2	HIS	1554	19.422	26.336	-6.914	1.00	16.82
ATOM	10390	C	HIS	1554	22.845	22.741	-0.104	1.00	20.58
ATOM	10391	O	HIS	1554	22.867	22.091	-0.776	1.00	20.01
ATOM	10392	N	ASP	1555	23.821	23.624	0.197	1.00	23.50
ATOM	10393	CA	ASP	1555	25.007	25.712	-0.705	1.00	24.86
ATOM	10394	CB	ASP	1555	25.650	26.113	-0.463	1.00	25.11
ATOM	10395	CG	ASP	1555	25.961	26.575	-0.614	1.00	24.15
ATOM	10396	CD1	ASP	1555	26.702	26.570	0.132	1.00	27.32
ATOM	10397	CD2	ASP	1555	25.461	27.566	-2.105	1.00	40.65
ATOM	10398	C	ASP	1555	26.255	27.645	-1.390	1.00	25.41
ATOM	10399	O	ASP	1555	27.045	27.423	-0.378	1.00	27.42
ATOM	10400	N	SER	1556	25.841	26.221	-0.380	1.00	27.66
ATOM	10401	CA	SER	1556	26.742	27.217	-0.475	1.00	27.58
ATOM	10402	CB	SER	1556	27.462	27.143	0.319	1.00	28.25
ATOM	10403	CG	SER	1556	27.406	27.421	-0.015	1.00	29.32
ATOM	10404	C	SER	1556	25.997	27.426	-1.429	1.00	28.25
ATOM	10405	O	SER	1556	24.791	27.719	-2.928	1.00	16.40
ATOM	10406	N	THR	1557	26.665	26.515	0.150	1.00	16.59
ATOM	10407	CA	THR	1557	26.921	27.315	-0.394	1.00	16.89
ATOM	10408	CB	THR	1557	26.632	27.043	-0.411	1.00	17.09
ATOM	10409	CG1	THR	1557	27.265	27.911	-0.646	1.00	17.06
ATOM	10410	CG2	THR	1557	26.693	27.916	-1.223	1.00	17.62
ATOM	10411	C	THR	1557	26.072	28.350	-2.278	1.00	16.25
ATOM	10412	O	THR	1557	25.424	28.540	-3.116	1.00	16.54
ATOM	10413	N	LEU	1558	26.858	27.237	-0.379	1.00	15.68
ATOM	10414	CA	LEU	1558	27.018	27.341	-0.323	1.00	16.74
ATOM	10415	CB	LEU	1558	27.954	27.440	0.514	1.00	17.19
ATOM	10416	CG	LEU	1558	29.465	27.181	2.284	1.00	17.43
ATOM	10417	CD1	LEU	1558	29.864	27.846	2.018	1.00	17.48
ATOM	10418	CD2	LEU	1558	30.223	27.345	2.878	1.00	18.51
ATOM	10419	C	LEU	1558	25.747	27.316	-1.569	1.00	15.47
ATOM	10420	O	LEU	1558	25.676	27.770	-2.094	1.00	14.85
ATOM	10421	N	PRO	1559	24.736	24.134	0.602	1.00	16.50
ATOM	10422	CA	PRO	1559	24.743	25.128	-0.385	1.00	15.31
ATOM	10423	CB	PRO	1559	23.507	24.227	-0.720	1.00	15.63

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ATOM	10501	CH	THR	1569	14.169	-12.892	5.379	1.00	11.71
ATOM	10502	C	THR	1569	14.972	-11.236	4.436	1.00	11.77
ATOM	10503	C	THR	1569	14.657	-12.170	3.646	1.00	11.77
ATOM	10504	N	ALA	1570	13.915	-10.915	5.359	1.00	11.71
ATOM	10505	CA	ALA	1570	13.666	-11.671	5.471	1.00	11.41
ATOM	10506	CB	ALA	1570	11.961	-11.390	6.885	1.00	11.16
ATOM	10507	C	ALA	1570	11.819	-11.544	4.111	1.00	11.73
ATOM	10508	C	ALA	1570	11.152	-12.596	3.784	1.00	11.55
ATOM	10509	N	ALA	1571	11.894	-10.348	3.633	1.00	11.15
ATOM	10510	CA	ALA	1571	11.028	-10.110	2.422	1.00	10.69
ATOM	10511	CB	ALA	1571	11.914	-8.819	2.085	1.00	10.51
ATOM	10512	C	ALA	1571	11.415	-10.967	1.563	1.00	11.99
ATOM	10513	C	ALA	1571	10.931	-11.499	0.477	1.00	11.47
ATOM	10514	N	VAL	1572	12.139	-10.923	1.141	1.00	11.65
ATOM	10515	CA	VAL	1572	13.537	-11.587	0.061	1.00	11.65
ATOM	10516	CB	VAL	1572	15.07	-11.473	0.601	1.00	11.81
ATOM	10517	CD1	VAL	1572	15.771	-12.485	-0.951	1.00	14.45
ATOM	10518	CD2	VAL	1572	15.317	-10.950	-0.451	1.00	14.01
ATOM	10519	C	VAL	1572	13.211	-12.176	0.231	1.00	14.25
ATOM	10520	C	VAL	1572	12.954	-13.886	-0.721	1.00	14.24
ATOM	10521	N	ARG	1573	13.351	-13.659	1.471	1.00	11.28
ATOM	10522	CA	ARG	1573	12.121	-15.066	1.731	1.00	11.91
ATOM	10523	CB	ARG	1573	11.411	-15.409	3.201	1.00	12.46
ATOM	10524	CG	ARG	1573	13.134	-16.875	3.561	1.00	14.12
ATOM	10525	CD	ARG	1573	13.891	-17.820	2.631	1.00	13.99
ATOM	10526	NE	ARG	1573	15.239	-17.944	3.001	1.00	15.31
ATOM	10527	CZ	ARG	1573	16.238	-18.491	2.141	1.00	17.73
ATOM	10528	NH1	ARG	1573	15.931	-15.981	1.041	1.00	18.85
ATOM	10529	NH2	ARG	1573	17.486	-13.589	2.691	1.00	13.43
ATOM	10530	C	ARG	1573	11.791	-15.460	1.351	1.00	15.91
ATOM	10531	C	ARG	1573	11.461	-14.569	0.881	1.00	14.66
ATOM	10532	N	ARG	1574	10.730	-14.561	1.551	1.00	13.46
ATOM	10533	CA	ARG	1574	8.316	-14.881	1.211	1.00	13.92
ATOM	10534	CB	ARG	1574	8.331	-13.802	1.701	1.00	14.87
ATOM	10535	CG	ARG	1574	8.451	-13.821	3.211	1.00	17.41
ATOM	10536	CD	ARG	1574	7.131	-13.765	3.651	1.00	15.03
ATOM	10537	NE	ARG	1574	7.341	-12.554	5.051	1.00	19.59
ATOM	10538	CZ	ARG	1574	7.311	-11.501	5.631	1.00	20.15
ATOM	10539	NH1	ARG	1574	7.411	-13.577	4.931	1.00	17.97
ATOM	10540	NH2	ARG	1574	7.331	-11.421	6.051	1.00	23.22
ATOM	10541	C	ARG	1574	8.210	-13.013	-0.254	1.00	23.49
ATOM	10542	C	ARG	1574	8.311	-15.777	-0.781	1.00	14.10
ATOM	10543	N	GLY	1575	11.017	-14.053	-1.014	1.00	15.47
ATOM	10544	CA	GLY	1575	9.944	-13.197	-2.454	1.00	15.24
ATOM	10545	C	GLY	1575	10.631	-13.461	-3.081	1.00	16.10
ATOM	10546	C	GLY	1575	10.337	-13.961	-4.151	1.00	15.71
ATOM	10547	N	ALA	1576	11.791	-13.894	-2.441	1.00	15.51
ATOM	10548	CA	ALA	1576	12.571	-16.986	-2.951	1.00	16.76
ATOM	10549	CB	ALA	1576	13.351	-16.430	-3.564	1.00	18.00
ATOM	10550	C	ALA	1576	12.331	-13.923	-1.801	1.00	16.86
ATOM	10551	C	ALA	1576	14.961	-13.923	-1.311	1.00	15.30
ATOM	10552	N	LEU	1577	11.307	-13.753	-1.561	1.00	17.36
ATOM	10553	CD	LEU	1577	10.841	-13.634	-1.981	1.00	15.74
ATOM	10554	CA	LEU	1577	10.136	-13.698	-0.761	1.00	18.18
ATOM	10555	CB	LEU	1577	10.731	-2.385	-0.061	1.00	19.74
ATOM	10556	CD	LEU	1577	10.211	-23.291	-1.461	1.00	21.51
ATOM	10557	C	LEU	1577	10.211	-23.765	-0.421	1.00	21.10
ATOM	10558	C	LEU	1577	13.664	-21.381	0.561	1.00	21.21
ATOM	10559	N	ASN	1578	13.711	-23.983	-1.641	1.00	19.12
ATOM	10560	CA	ASN	1578	13.731	-23.068	-1.811	1.00	19.33
ATOM	10561	CB	ASN	1578	14.231	-24.019	-2.851	1.00	23.93
ATOM	10562	CG	ASN	1578	12.931	-23.757	-2.631	1.00	26.55
ATOM	10563	CD1	ASN	1578	12.941	-24.304	-1.344	1.00	30.39
ATOM	10564	ND2	ASN	1578	11.942	-23.707	-3.261	1.00	30.04
ATOM	10565	C	ASN	1578	16.057	-21.461	-2.347	1.00	18.41
ATOM	10566	C	ASN	1578	16.971	-22.231	-2.711	1.00	17.85
ATOM	10567	N	CYS	1579	16.210	-23.148	-2.351	1.00	16.75
ATOM	10568	CA	CYS	1579	15.486	-19.565	-2.791	1.00	16.63
ATOM	10569	CB	CYS	1579	17.261	-18.111	-3.251	1.00	18.56
ATOM	10570	SG	CYS	1579	15.375	-16.876	-1.911	1.00	20.61
ATOM	10571	C	CYS	1579	17.559	-13.563	-1.701	1.00	16.46
ATOM	10572	C	CYS	1579	18.254	-13.737	-0.521	1.00	16.94
ATOM	10573	N	LEU	1580	15.797	-19.406	-2.121	1.00	16.30
ATOM	10574	CA	LEU	1580	20.901	-13.306	-1.181	1.00	16.34
ATOM	10575	CB	LEU	1580	22.325	-19.741	-1.820	1.00	16.18
ATOM	10576	CG	LEU	1580	23.496	-18.451	-1.005	1.00	16.78
ATOM	10577	CD1	LEU	1580	23.455	-20.123	0.560	1.00	18.05

ATOM	10578	CH	LEU	15-1	24.000	-10.881	1.777	1.00	19.94
ATOM	10579	O	LEU	15-1	10.894	-17.063	-6.914	1.00	16.05
ATOM	10580	O	LEU	15-1	21.150	-16.999	-1.813	1.00	13.81
ATOM	10581	N	LEU	15-1	20.540	-17.431	0.421	1.00	16.04
ATOM	10582	CA	LEU	15-1	20.4	-16.639	0.794	1.00	15.99
ATOM	10583	CB	LEU	15-1	18.1	-15.811	1.473	1.00	16.23
ATOM	10584	CG	LEU	15-1	18.500	-14.411	1.600	1.00	17.05
ATOM	10585	CH1	LEU	15-1	17.113	-14.153	2.320	1.00	16.40
ATOM	10586	CH2	LEU	15-1	19.300	-13.427	2.443	1.00	19.60
ATOM	10587	O	LEU	15-1	21.670	-15.500	1.569	1.00	16.66
ATOM	10588	O	LEU	15-1	21.700	-16.065	2.663	1.00	15.52
ATOM	10589	N	LEU	15-2	23.400	-14.679	1.031	1.00	15.45
ATOM	10590	CA	LEU	15-2	23.300	-14.100	1.741	1.00	16.37
ATOM	10591	CB	LEU	15-2	24.700	-13.309	2.850	1.00	17.20
ATOM	10592	CG	LEU	15-2	25.800	-14.804	0.746	1.00	18.08
ATOM	10593	CH1	LEU	15-2	25.200	-16.100	0.170	1.00	19.64
ATOM	10594	CH2	LEU	15-2	26.900	-14.340	-0.120	1.00	20.41
ATOM	10595	O	LEU	15-2	24.300	-12.700	2.290	1.00	16.31
ATOM	10596	O	LEU	15-2	22.700	-12.000	1.590	1.00	18.16
ATOM	10597	N	ALA	15-3	23.300	-13.440	2.521	1.00	15.11
ATOM	10598	CA	ALA	15-3	22.500	-11.100	4.111	1.00	14.69
ATOM	10599	CB	ALA	15-3	21.800	-11.410	5.219	1.00	14.69
ATOM	10600	O	ALA	15-3	24.100	-10.400	4.667	1.00	14.14
ATOM	10601	O	ALA	15-3	25.700	-11.100	5.344	1.00	13.71
ATOM	10602	N	ASP	15-4	24.300	-9.200	4.362	1.00	13.31
ATOM	10603	CA	ASP	15-4	25.300	-8.400	4.855	1.00	14.49
ATOM	10604	CB	ASP	15-4	25.600	-7.100	4.091	1.00	15.94
ATOM	10605	CG	ASP	15-4	26.400	-7.341	3.330	1.00	17.31
ATOM	10606	OD1	ASP	15-4	27.100	-8.100	2.651	1.00	20.03
ATOM	10607	OD2	ASP	15-4	26.300	-6.300	2.006	1.00	18.71
ATOM	10608	O	ASP	15-4	25.300	-8.000	3.304	1.00	13.41
ATOM	10609	O	ASP	15-4	24.200	-8.700	3.719	1.00	12.56
ATOM	10610	N	LEU	15-5	16.400	-8.600	7.006	1.00	12.65
ATOM	10611	CA	LEU	15-5	16.300	-7.514	8.410	1.00	13.11
ATOM	10612	CB	LEU	15-5	17.500	-8.100	8.306	1.00	13.48
ATOM	10613	CG	LEU	15-5	16.900	-8.840	8.777	1.00	13.68
ATOM	10614	CH1	LEU	15-5	17.800	-10.100	10.300	1.00	12.60
ATOM	10615	CH2	LEU	15-5	15.500	-8.600	10.207	1.00	14.07
ATOM	10616	O	LEU	15-5	16.800	-6.100	8.080	1.00	15.53
ATOM	10617	O	LEU	15-5	17.900	-8.200	7.481	1.00	15.47
ATOM	10618	N	PRO	15-6	16.000	-8.000	8.421	1.00	14.11
ATOM	10619	CD	PRO	15-6	14.700	-8.100	8.003	1.00	16.51
ATOM	10620	CA	PRO	15-6	16.410	-8.600	8.160	1.00	14.80
ATOM	10621	CB	PRO	15-6	15.800	-8.900	8.383	1.00	14.41
ATOM	10622	CG	PRO	15-6	14.400	-8.900	8.480	1.00	15.58
ATOM	10623	O	PRO	15-6	17.110	-8.000	8.900	1.00	15.36
ATOM	10624	O	PRO	15-6	18.100	-8.700	8.304	1.00	13.48
ATOM	10625	N	PHE	15-7	17.800	-10.000	10.690	1.00	13.29
ATOM	10626	CA	PHE	15-7	16.800	-8.000	8.300	1.00	15.46
ATOM	10627	CB	PHE	15-7	18.800	-9.100	7.900	1.00	15.27
ATOM	10628	CG	PHE	15-7	19.300	-8.100	8.000	1.00	16.40
ATOM	10629	CH1	PHE	15-7	19.800	-8.400	8.100	1.00	15.91
ATOM	10630	CH2	PHE	15-7	18.800	-8.700	10.610	1.00	16.81
ATOM	10631	CE1	PHE	15-7	21.610	-8.100	12.330	1.00	19.00
ATOM	10632	CE2	PHE	15-7	19.610	-8.900	11.370	1.00	18.87
ATOM	10633	CE3	PHE	15-7	21.600	-8.100	11.300	1.00	18.40
ATOM	10634	O	PHE	15-7	18.800	-11.000	10.600	1.00	14.30
ATOM	10635	O	PHE	15-7	17.500	-8.000	11.300	1.00	18.77
ATOM	10636	N	MET	15-8	23.640	-10.000	11.400	1.00	16.40
ATOM	10637	CA	MET	15-8	20.110	-10.700	13.800	1.00	14.60
ATOM	10638	CB	MET	15-8	20.900	-10.400	13.610	1.00	15.47
ATOM	10639	CG	MET	15-8	20.700	-11.000	14.800	1.00	17.28
ATOM	10640	SD	MET	15-8	22.500	-10.400	14.600	1.00	16.90
ATOM	10641	CE	MET	15-8	22.900	-10.100	14.350	1.00	16.80
ATOM	10642	O	MET	15-8	29.130	-2.820	15.480	1.00	14.81
ATOM	10643	O	MET	15-8	28.830	-2.740	14.650	1.00	16.79
ATOM	10644	N	ALA	15-9	28.730	-3.800	12.630	1.00	15.80
ATOM	10645	CA	ALA	15-9	27.900	-4.800	13.130	1.00	14.00
ATOM	10646	CB	ALA	15-9	26.870	-5.100	12.120	1.00	14.61
ATOM	10647	O	ALA	15-9	28.700	-6.000	13.617	1.00	14.90
ATOM	10648	O	ALA	15-9	28.140	-7.000	14.116	1.00	17.70
ATOM	10649	N	TYR	15-10	30.020	-6.000	13.421	1.00	14.00
ATOM	10650	CA	TYR	15-10	30.911	-7.130	13.775	1.00	15.93
ATOM	10651	CB	TYR	15-10	31.264	-8.010	12.543	1.00	16.40
ATOM	10652	CG	TYR	15-10	31.512	-7.250	11.277	1.00	15.39
ATOM	10653	CD1	TYR	15-10	32.816	-7.232	10.783	1.00	13.60
ATOM	10654	CE1	TYR	15-10	33.127	-6.558	9.596	1.00	15.26

ATOM	10655	CH	TYR	1590	60.304	-5.1371	20.559	1.00	14.41
ATOM	10656	CH	TYR	1590	60.319	-5.1895	19.378	1.00	14.96
ATOM	10657	CH	TYR	1590	60.110	-5.1895	18.901	1.00	14.13
ATOM	10658	CH	TYR	1590	60.380	-5.1447	19.718	1.00	14.98
ATOM	10659	C	TYR	1590	60.217	-6.1601	14.334	1.00	16.90
ATOM	10660	C	TYR	1590	60.303	-6.1677	13.980	1.00	17.15
ATOM	10661	N	ALA	1591	60.104	-5.1628	15.735	1.00	16.80
ATOM	10662	HA	ALA	1591	60.257	-4.9974	15.865	1.00	18.10
ATOM	10663	HB	ALA	1591	60.999	-4.7034	16.637	1.00	17.10
ATOM	10664	C	ALA	1591	64.012	-5.1909	16.798	1.00	17.10
ATOM	10665	C	ALA	1591	65.213	-5.7336	17.608	1.00	18.00
ATOM	10666	N	THR	1592	63.889	-6.1868	17.168	1.00	17.63
ATOM	10667	CA	THR	1592	60.871	-6.1361	18.153	1.00	17.10
ATOM	10668	CB	THR	1592	60.587	-6.1536	19.578	1.00	18.10
ATOM	10669	CG1	THR	1592	62.377	-6.1681	19.999	1.00	18.10
ATOM	10670	CG2	THR	1592	64.358	-6.1681	20.217	1.00	18.10
ATOM	10671	C	THR	1592	63.163	-9.1184	17.600	1.00	18.10
ATOM	10672	C	THR	1592	62.313	-9.1201	17.318	1.00	18.10
ATOM	10673	N	PRO	1592	62.866	-10.3316	18.177	1.00	16.10
ATOM	10674	CD	PRO	1592	65.154	-10.3461	18.655	1.00	16.80
ATOM	10675	CA	PRO	1592	63.269	-11.607	17.903	1.00	16.80
ATOM	10676	CB	PRO	1592	64.278	-12.599	18.453	1.00	17.73
ATOM	10677	CG	PRO	1592	65.587	-11.8877	18.223	1.00	16.98
ATOM	10678	C	PRO	1592	61.874	-11.769	18.513	1.00	16.89
ATOM	10679	C	PRO	1592	60.934	-12.190	17.858	1.00	15.96
ATOM	10680	N	GLU	1594	61.746	-11.415	18.819	1.00	17.16
ATOM	10681	CA	GLU	1594	60.467	-11.548	20.107	1.00	17.81
ATOM	10682	CB	GLU	1594	60.666	-11.096	21.986	1.00	21.81
ATOM	10683	CG	GLU	1594	60.592	-11.407	20.830	1.00	29.07
ATOM	10684	CD	GLU	1594	60.687	-11.163	24.968	1.00	34.97
ATOM	10685	OE1	GLU	1594	60.687	-10.636	24.649	1.00	37.17
ATOM	10686	OE2	GLU	1594	60.410	-12.601	25.214	1.00	37.45
ATOM	10687	C	GLU	1594	59.269	-10.755	19.817	1.00	16.20
ATOM	10688	C	GLU	1594	68.233	-11.116	19.721	1.00	14.75
ATOM	10689	N	GLN	1594	60.708	-9.1668	18.816	1.00	16.15
ATOM	10690	CA	GLN	1594	68.233	-8.7445	18.635	1.00	16.81
ATOM	10691	CB	GLN	1594	60.708	-8.413	18.419	1.00	19.07
ATOM	10692	CG	GLN	1594	60.544	-8.4901	18.814	1.00	20.36
ATOM	10693	CD	GLN	1594	60.618	-8.113	19.633	1.00	28.24
ATOM	10694	OE1	GLN	1594	60.618	-7.411	18.934	1.00	30.74
ATOM	10695	NE2	GLN	1594	60.719	-4.623	20.114	1.00	31.60
ATOM	10696	C	GLN	1594	60.498	-9.444	17.182	1.00	13.90
ATOM	10697	C	GLN	1594	60.161	-9.499	16.416	1.00	12.90
ATOM	10698	N	ALA	1596	60.419	-9.418	16.636	1.00	12.16
ATOM	10699	CA	ALA	1596	60.184	-10.737	15.939	1.00	12.33
ATOM	10700	CB	ALA	1596	60.493	-10.448	14.780	1.00	11.02
ATOM	10701	C	ALA	1596	60.111	-11.662	16.493	1.00	12.04
ATOM	10702	C	ALA	1596	60.246	-11.187	11.661	1.00	11.62
ATOM	10703	N	PHE	1597	60.140	-12.117	16.166	1.00	13.20
ATOM	10704	CA	PHE	1597	60.469	-13.688	16.787	1.00	12.23
ATOM	10705	CB	PHE	1597	60.820	-14.438	13.977	1.00	11.34
ATOM	10706	CG	PHE	1597	60.163	-14.438	13.185	1.00	10.72
ATOM	10707	CD1	PHE	1597	60.696	-13.143	17.043	1.00	14.75
ATOM	10708	CD2	PHE	1597	60.691	-14.963	16.436	1.00	13.52
ATOM	10709	CE1	PHE	1597	60.113	-15.486	17.185	1.00	15.56
ATOM	10710	CE2	PHE	1597	60.264	-15.487	16.533	1.00	14.42
ATOM	10711	CE	PHE	1597	60.164	-15.713	14.133	1.00	13.68
ATOM	10712	C	PHE	1597	60.105	-13.235	18.932	1.00	12.63
ATOM	10713	C	PHE	1597	60.114	-13.484	16.346	1.00	12.54
ATOM	10714	N	GLU	1598	60.778	-12.184	17.867	1.00	12.52
ATOM	10715	CA	GLU	1598	61.134	-11.611	17.842	1.00	13.41
ATOM	10716	CB	GLU	1598	64.166	-10.611	18.865	1.00	16.16
ATOM	10717	CG	GLU	1598	64.043	-10.991	19.313	1.00	23.47
ATOM	10718	CD	GLU	1598	61.213	-10.990	20.189	1.00	28.97
ATOM	10719	CE1	GLU	1598	62.141	-12.184	20.199	1.00	31.03
ATOM	10720	CE2	GLU	1598	61.414	-10.192	20.653	1.00	32.01
ATOM	10721	C	GLU	1598	61.733	-11.117	16.915	1.00	12.14
ATOM	10722	C	GLU	1598	62.634	-11.423	16.321	1.00	11.28
ATOM	10723	N	ASN	1599	64.513	-10.316	15.352	1.00	12.02
ATOM	10724	CA	ASN	1599	61.353	-9.758	14.649	1.00	11.59
ATOM	10725	CB	ASN	1599	61.740	-8.518	14.228	1.00	12.97
ATOM	10726	CG	ASN	1599	64.671	-7.421	15.295	1.00	13.16
ATOM	10727	OD1	ASN	1599	63.617	-7.218	15.398	1.00	13.34
ATOM	10728	ND2	ASN	1599	65.774	-6.712	15.519	1.00	13.33
ATOM	10729	C	ASN	1599	63.865	-10.771	13.597	1.00	11.88
ATOM	10730	C	ASN	1599	62.961	-10.696	12.677	1.00	11.95
ATOM	10731	N	ALA	1600	64.790	-11.724	13.471	1.00	9.53

ATOM	10737	CA	ALA	1603	14.732	-11.754	11.449	1.00	11.91
ATOM	10738	CB	ALA	1603	15.094	-11.619	11.443	1.00	11.15
ATOM	10739	C	ALA	1603	13.907	-11.619	11.742	1.00	11.76
ATOM	10740	O	ALA	1603	13.767	-11.990	11.838	1.00	12.58
ATOM	10741	N	ALA	1601	13.083	-11.922	14.013	1.00	11.05
ATOM	10742	CA	ALA	1601	13.147	-11.744	14.391	1.00	11.07
ATOM	10743	CB	ALA	1601	13.183	-11.980	15.889	1.00	12.88
ATOM	10744	C	ALA	1601	20.833	-11.011	14.013	1.00	11.65
ATOM	10745	O	ALA	1601	19.863	-11.733	13.824	1.00	12.48
ATOM	10746	N	THR	1602	20.781	-11.735	14.193	1.00	10.09
ATOM	10747	CA	THR	1602	19.563	-11.980	11.481	1.00	10.55
ATOM	10748	CB	THR	1602	18.713	-11.616	13.114	1.00	10.24
ATOM	10749	CG1	THR	1602	18.875	-10.342	15.838	1.00	12.17
ATOM	10750	CG2	THR	1602	18.493	-9.763	11.773	1.00	11.56
ATOM	10751	C	THR	1602	19.213	-11.089	12.402	1.00	11.71
ATOM	10752	O	THR	1602	19.043	-11.256	11.951	1.00	12.21
ATOM	10753	N	VAL	1603	23.193	-11.384	11.538	1.00	8.99
ATOM	10754	CA	VAL	1603	19.897	-11.956	10.123	1.00	10.74
ATOM	10755	CB	VAL	1603	20.997	-11.276	9.180	1.00	12.65
ATOM	10756	CG1	VAL	1603	20.519	-11.129	7.558	1.00	19.73
ATOM	10757	CG2	VAL	1603	21.309	-9.885	9.884	1.00	13.29
ATOM	10758	C	VAL	1603	19.677	-11.401	9.655	1.00	10.83
ATOM	10759	O	VAL	1603	18.931	-11.651	8.753	1.00	11.56
ATOM	10760	N	MET	1604	20.322	-11.354	10.387	1.00	10.53
ATOM	10761	CA	MET	1604	20.113	-11.763	10.024	1.00	11.02
ATOM	10762	CB	MET	1604	21.082	-11.692	10.805	1.00	15.41
ATOM	10763	CG	MET	1604	22.562	-11.593	10.441	1.00	18.50
ATOM	10764	SD	MET	1604	22.953	-11.034	8.795	1.00	27.30
ATOM	10765	CE	MET	1604	22.871	-11.884	8.916	1.00	21.09
ATOM	10766	C	MET	1604	18.677	-11.163	10.387	1.00	10.81
ATOM	10767	O	MET	1604	17.984	-11.794	9.584	1.00	15.07
ATOM	10768	N	ARG	1605	18.222	-11.811	11.154	1.00	11.02
ATOM	10769	CA	ARG	1605	16.861	-11.113	11.993	1.00	12.52
ATOM	10770	CB	ARG	1605	16.582	-11.724	13.443	1.00	13.71
ATOM	10771	CG	ARG	1605	17.431	-11.445	11.495	1.00	15.88
ATOM	10772	CD	ARG	1605	16.793	-11.355	15.853	1.00	14.01
ATOM	10773	NE	ARG	1605	17.771	-11.750	16.929	1.00	18.79
ATOM	10774	CZ	ARG	1605	18.649	-11.813	11.433	1.00	18.25
ATOM	10775	NH1	ARG	1605	18.673	-11.616	11.925	1.00	18.55
ATOM	10776	NH2	ARG	1605	19.521	-11.114	11.117	1.00	18.62
ATOM	10777	C	ARG	1605	15.814	-11.511	11.117	1.00	12.91
ATOM	10778	O	ARG	1605	14.724	-11.019	10.009	1.00	12.21
ATOM	10779	N	ALA	1606	16.141	-11.156	13.181	1.00	11.94
ATOM	10780	CA	ALA	1606	15.223	-11.711	9.175	1.00	12.22
ATOM	10781	CB	ALA	1606	15.632	-11.232	9.119	1.00	11.74
ATOM	10782	C	ALA	1606	15.136	-11.154	8.199	1.00	13.18
ATOM	10783	O	ALA	1606	14.274	-11.011	7.151	1.00	14.17
ATOM	10784	N	GLY	1607	16.023	-11.311	7.151	1.00	12.35
ATOM	10785	CA	GLY	1607	15.950	-11.019	6.683	1.00	11.48
ATOM	10786	C	GLY	1607	17.268	-11.213	6.907	1.00	11.33
ATOM	10787	O	GLY	1607	17.316	-11.013	4.959	1.00	15.36
ATOM	10788	N	ALA	1608	18.368	-11.612	6.116	1.00	11.14
ATOM	10789	CA	ALA	1608	19.668	-11.717	5.811	1.00	12.71
ATOM	10790	CB	ALA	1608	20.611	-11.619	6.156	1.00	13.69
ATOM	10791	C	ALA	1608	20.294	-11.111	5.159	1.00	13.84
ATOM	10792	O	ALA	1608	20.012	-11.719	6.179	1.00	11.53
ATOM	10793	N	ASN	1609	21.115	-11.612	4.951	1.00	15.34
ATOM	10794	CA	ASN	1609	21.814	-11.815	5.007	1.00	15.10
ATOM	10795	CB	ASN	1609	21.716	-11.714	3.107	1.00	14.21
ATOM	10796	CG	ASN	1609	20.321	-11.012	3.407	1.00	15.93
ATOM	10797	GD1	ASN	1609	19.606	-11.715	4.117	1.00	18.98
ATOM	10798	ND1	ASN	1609	19.910	-11.610	3.159	1.00	13.95
ATOM	10799	C	ASN	1609	23.293	-11.618	5.314	1.00	14.73
ATOM	10800	O	ASN	1609	24.021	-11.513	5.134	1.00	15.75
ATOM	10801	N	MET	1610	23.712	-11.415	5.949	1.00	15.00
ATOM	10802	CA	MET	1610	25.132	-11.013	5.117	1.00	13.92
ATOM	10803	CB	MET	1610	25.864	-11.514	3.935	1.00	14.99
ATOM	10804	CG	MET	1610	27.293	-11.017	3.139	1.00	13.31
ATOM	10805	SD	MET	1610	27.934	-11.518	2.175	1.00	19.54
ATOM	10806	CE	MET	1610	28.973	-11.914	2.662	1.00	21.61
ATOM	10807	C	MET	1610	25.270	-11.516	3.121	1.00	15.22
ATOM	10808	O	MET	1610	24.400	-11.818	3.323	1.00	12.57
ATOM	10809	N	VAL	1611	26.356	-11.115	6.153	1.00	13.16
ATOM	10810	CA	VAL	1611	26.603	-11.712	6.136	1.00	14.59
ATOM	10811	CB	VAL	1611	26.750	-11.510	7.859	1.00	18.07
ATOM	10812	CG1	VAL	1611	27.320	-11.217	6.152	1.00	23.23
ATOM	10813	CG2	VAL	1611	25.389	-11.741	6.555	1.00	17.45

ATOM	10812	A	LEU	1612	28.441	-11.141	4.941	1.00	14.73
ATOM	10813	I	LEU	1613	28.541	-10.940	4.923	1.00	14.78
ATOM	10814	I	LEU	1614	28.718	-11.141	4.941	1.00	14.73
ATOM	10815	T	LEU	1615	28.418	-11.141	4.941	1.00	14.74
ATOM	10816	VF	LEU	1616	28.447	-11.141	4.941	1.00	14.73
ATOM	10817	NA	LEU	1617	28.444	-11.141	4.941	1.00	14.73
ATOM	10818	C	LEU	1618	28.476	-10.940	4.923	1.00	14.73
ATOM	10819	O	LEU	1619	28.768	-9.454	5.020	1.00	15.46
ATOM	10820	N	LEU	1620	28.768	-10.940	4.923	1.00	15.75
ATOM	10821	CA	LEU	1621	28.448	-9.454	4.923	1.00	15.75
ATOM	10822	CP	LEU	1622	28.448	-9.454	4.923	1.00	15.75
ATOM	10823	CE1	LEU	1623	28.448	-9.454	4.923	1.00	15.75
ATOM	10824	CE2	LEU	1624	28.448	-9.454	4.923	1.00	15.75
ATOM	10825	CE3	LEU	1625	28.448	-9.454	4.923	1.00	15.75
ATOM	10826	C	LEU	1626	33.871	-8.698	5.487	1.00	17.52
ATOM	10827	O	LEU	1627	33.363	-9.453	4.805	1.00	17.34
ATOM	10828	N	GLU	1628	31.948	-7.410	5.658	1.00	18.44
ATOM	10829	CA	GLU	1629	31.077	-6.756	5.014	1.00	22.04
ATOM	10830	CB	GLU	1630	31.699	-5.919	4.680	1.00	21.72
ATOM	10831	CG	GLU	1631	31.558	-5.213	3.660	1.00	24.57
ATOM	10832	CD	GLU	1632	32.219	-3.873	3.716	1.00	25.01
ATOM	10833	CE1	GLU	1633	31.348	-1.879	3.851	1.00	25.95
ATOM	10834	CE2	GLU	1634	31.103	-1.535	2.792	1.00	26.44
ATOM	10835	C	GLU	1635	35.319	-6.730	5.879	1.00	22.81
ATOM	10836	O	GLU	1636	35.259	-6.387	7.059	1.00	25.72
ATOM	10837	N	GLY	1637	18.449	-7.082	5.132	1.00	24.76
ATOM	10838	CA	GLY	1638	18.706	-7.063	6.062	1.00	26.01
ATOM	10839	C	GLY	1639	18.687	-8.191	5.134	1.00	25.48
ATOM	10840	O	GLY	1640	18.764	-9.195	5.132	1.00	26.13
ATOM	10841	N	GLY	1641	29.916	-8.024	6.115	1.00	26.28
ATOM	10842	CA	GLY	1642	40.957	-9.043	5.855	1.00	25.88
ATOM	10843	C	GLY	1643	41.795	-9.771	7.191	1.00	26.83
ATOM	10844	O	GLY	1644	40.991	-10.213	7.861	1.00	26.50
ATOM	10845	N	GLU	1645	42.701	-9.780	7.135	1.00	26.80
ATOM	10846	CA	GLU	1646	42.663	-10.427	5.437	1.00	25.78
ATOM	10847	CB	GLU	1647	44.651	-9.923	5.564	1.00	28.43
ATOM	10848	CG	GLU	1648	43.656	-10.075	5.688	1.00	31.84
ATOM	10849	CD	GLU	1649	46.656	-10.074	5.624	1.00	30.80
ATOM	10850	CE1	GLU	1650	43.199	-12.883	5.770	1.00	30.80
ATOM	10851	CE2	GLU	1651	43.299	-12.383	6.115	1.00	30.81
ATOM	10852	C	GLU	1652	43.713	-19.294	6.420	1.00	28.15
ATOM	10853	O	GLU	1653	42.957	-11.289	11.129	1.00	24.44
ATOM	10854	N	TRP	1654	42.434	-9.969	10.112	1.00	21.84
ATOM	10855	CA	TRP	1655	41.813	-8.355	11.814	1.00	25.46
ATOM	10856	CB	TRP	1656	41.607	-7.464	11.776	1.00	21.19
ATOM	10857	CG	TRP	1657	45.481	-8.766	11.040	1.00	19.85
ATOM	10858	CD2	TRP	1658	39.152	-8.510	11.583	1.00	19.88
ATOM	10859	CE2	TRP	1659	39.392	-9.939	10.521	1.00	17.75
ATOM	10860	CE3	TRP	1660	39.534	-8.723	11.329	1.00	19.42
ATOM	10861	CD1	TRP	1661	40.116	-8.348	8.745	1.00	20.11
ATOM	10862	NE1	TRP	1662	38.115	-9.345	8.332	1.00	18.85
ATOM	10863	CZ2	TRP	1663	37.704	-9.357	10.681	1.00	18.13
ATOM	10864	CZ3	TRP	1664	37.114	-8.345	11.035	1.00	18.11
ATOM	10865	CH2	TRP	1665	36.182	-8.771	11.913	1.00	19.17
ATOM	10866	C	TRP	1666	40.544	-8.619	11.787	1.00	20.19
ATOM	10867	O	TRP	1667	40.136	-9.746	11.055	1.00	18.39
ATOM	10868	N	LEU	1668	39.217	-13.144	11.757	1.00	21.33
ATOM	10869	CA	LEU	1669	38.608	-11.886	10.453	1.00	20.49
ATOM	10870	CB	LEU	1670	37.751	-11.822	9.695	1.00	20.97
ATOM	10871	CG	LEU	1671	37.166	-8.338	9.625	1.00	21.43
ATOM	10872	CD1	LEU	1672	36.316	-9.117	8.338	1.00	22.24
ATOM	10873	CD2	LEU	1673	36.290	-9.339	10.933	1.00	23.75
ATOM	10874	C	LEU	1674	38.317	-12.395	11.167	1.00	19.39
ATOM	10875	O	LEU	1675	37.321	-15.094	11.238	1.00	18.11
ATOM	10876	N	VAL	1676	40.047	-12.399	11.034	1.00	18.75
ATOM	10877	CA	VAL	1677	40.284	-14.334	11.174	1.00	18.47
ATOM	10878	CB	VAL	1678	41.798	-14.645	11.309	1.00	20.23
ATOM	10879	CG1	VAL	1679	42.057	-16.107	11.260	1.00	23.87
ATOM	10880	CG2	VAL	1680	42.505	-14.331	10.000	1.00	22.98
ATOM	10881	C	VAL	1681	39.593	-14.972	12.349	1.00	19.33
ATOM	10882	O	VAL	1682	38.847	-15.965	12.173	1.00	19.24
ATOM	10883	N	GLU	1683	39.751	-14.411	13.543	1.00	19.17
ATOM	10884	CA	GLU	1684	39.088	-14.946	14.741	1.00	18.85
ATOM	10885	CB	GLU	1685	39.479	-14.109	15.963	1.00	18.97

ATOM	10886	CG	GLU	1621	39.815	-14.561	17.256	1.00	21.60
ATOM	10887	CI	GLU	1621	39.265	-13.760	18.471	1.00	25.26
ATOM	10888	CE1	GLU	1621	39.153	-12.515	18.453	1.00	24.17
ATOM	10889	CE2	GLU	1621	39.740	-14.383	19.446	1.00	28.44
ATOM	10890	C	GLU	1621	37.531	-14.962	18.599	1.00	16.87
ATOM	10891	O	GLU	1621	36.911	-15.951	18.909	1.00	16.16
ATOM	10892	N	THR	1622	37.021	-13.855	18.118	1.00	17.73
ATOM	10893	CA	THR	1622	35.582	-13.729	17.938	1.00	15.32
ATOM	10894	CB	THR	1622	35.238	-12.319	17.410	1.00	16.78
ATOM	10895	CG1	THR	1622	35.730	-11.345	18.256	1.00	17.00
ATOM	10896	CG2	THR	1622	35.717	-12.140	17.272	1.00	14.48
ATOM	10897	C	THR	1622	35.038	-14.797	17.965	1.00	15.13
ATOM	10898	O	THR	1622	34.064	-15.464	17.293	1.00	13.77
ATOM	10899	N	VAL	1623	35.656	-14.567	17.832	1.00	13.82
ATOM	10900	CA	VAL	1623	33.253	-15.569	16.762	1.00	14.72
ATOM	10901	CB	VAL	1623	36.162	-15.907	19.569	1.00	14.99
ATOM	10902	CG1	VAL	1623	35.816	-17.117	18.602	1.00	16.16
ATOM	10903	CG2	VAL	1623	35.956	-14.548	18.921	1.00	14.47
ATOM	10904	C	VAL	1623	35.345	-17.587	17.451	1.00	15.17
ATOM	10905	O	VAL	1623	34.424	-18.186	17.108	1.00	13.99
ATOM	10906	N	GLN	1624	36.456	-17.280	17.117	1.00	14.83
ATOM	10907	CA	GLN	1624	36.641	-18.297	17.527	1.00	17.43
ATOM	10908	CB	GLN	1624	38.012	-18.072	17.421	1.00	20.41
ATOM	10909	CG	GLN	1624	39.205	-17.806	17.449	1.00	28.10
ATOM	10910	CD	GLN	1624	40.540	-18.265	18.212	1.00	31.16
ATOM	10911	OE1	GLN	1624	40.789	-18.329	18.238	1.00	33.11
ATOM	10912	NE2	GLN	1624	41.408	-18.809	17.661	1.00	31.88
ATOM	10913	C	GLN	1624	38.544	-19.236	17.751	1.00	15.38
ATOM	10914	O	GLN	1624	34.966	-20.384	17.751	1.00	15.85
ATOM	10915	N	MET	1625	35.266	-18.324	18.631	1.00	16.19
ATOM	10916	CA	MET	1625	34.249	-19.118	17.664	1.00	14.53
ATOM	10917	CB	MET	1625	34.398	-17.466	18.758	1.00	15.61
ATOM	10918	CG	MET	1625	35.637	-18.691	17.623	1.00	16.11
ATOM	10919	SD	MET	1625	35.864	-18.257	18.837	1.00	20.36
ATOM	10920	CE	MET	1625	34.711	-19.275	20.112	1.00	24.48
ATOM	10921	C	MET	1625	32.831	-19.354	17.164	1.00	15.71
ATOM	10922	O	MET	1625	32.976	-19.238	17.571	1.00	16.00
ATOM	10923	N	LEU	1626	32.571	-19.771	18.161	1.00	16.96
ATOM	10924	CA	LEU	1626	32.240	-19.684	18.104	1.00	15.10
ATOM	10925	CB	LEU	1626	31.159	-19.687	17.416	1.00	15.18
ATOM	10926	CG	LEU	1626	30.816	-19.775	17.918	1.00	11.17
ATOM	10927	CD1	LEU	1626	30.981	-18.166	17.739	1.00	15.86
ATOM	10928	CD2	LEU	1626	29.359	-19.188	17.451	1.00	13.70
ATOM	10929	C	LEU	1626	30.947	-19.965	17.903	1.00	18.67
ATOM	10930	O	LEU	1626	29.961	-18.673	17.561	1.00	18.61
ATOM	10931	N	THR	1627	32.867	-18.598	17.007	1.00	18.41
ATOM	10932	CA	THR	1627	31.747	-20.277	17.417	1.00	15.44
ATOM	10933	CB	THR	1627	30.006	-21.171	17.553	1.00	20.87
ATOM	10934	CG1	THR	1627	31.255	-20.861	17.663	1.00	21.73
ATOM	10935	CG2	THR	1627	32.790	-20.324	17.777	1.00	21.46
ATOM	10936	C	THR	1627	31.481	-21.377	17.361	1.00	18.06
ATOM	10937	O	THR	1627	30.575	-21.371	17.126	1.00	20.07
ATOM	10938	N	GLY	1628	32.267	-20.307	17.444	1.00	20.11
ATOM	10939	CA	GLY	1628	33.057	-20.189	18.378	1.00	21.66
ATOM	10940	CB	GLY	1628	33.267	-20.186	18.317	1.00	23.33
ATOM	10941	CG	GLY	1628	33.231	-20.341	18.317	1.00	20.10
ATOM	10942	CD	GLY	1628	34.459	-20.161	17.333	1.00	27.07
ATOM	10943	OE1	GLY	1628	34.689	-20.374	17.344	1.00	27.89
ATOM	10944	OE2	GLY	1628	34.383	-20.653	18.039	1.00	28.14
ATOM	10945	C	GLY	1628	30.737	-20.309	18.151	1.00	21.33
ATOM	10946	O	GLY	1628	30.278	-20.301	18.893	1.00	21.41
ATOM	10947	N	ARG	1629	30.127	-21.806	17.073	1.00	18.90
ATOM	10948	CA	ARG	1629	28.850	-21.555	16.739	1.00	18.91
ATOM	10949	CB	ARG	1629	28.877	-20.193	16.456	1.00	19.15
ATOM	10950	CG	ARG	1629	29.636	-20.343	17.278	1.00	18.93
ATOM	10951	CD	ARG	1629	30.159	-18.883	18.246	1.00	12.79
ATOM	10952	NE	ARG	1629	30.953	-19.947	19.469	1.00	13.17
ATOM	10953	CZ	ARG	1629	32.153	-19.616	19.438	1.00	12.39
ATOM	10954	NH1	ARG	1629	32.719	-20.063	18.382	1.00	14.22
ATOM	10955	NH2	ARG	1629	32.778	-19.774	20.658	1.00	15.37
ATOM	10956	C	ARG	1629	27.659	-21.633	18.768	1.00	19.42
ATOM	10957	O	ARG	1629	26.619	-21.929	15.936	1.00	21.03
ATOM	10958	N	ALA	1630	27.838	-22.373	13.671	1.00	19.16
ATOM	10959	CA	ALA	1630	26.792	-22.591	12.653	1.00	17.12
ATOM	10960	CB	ALA	1630	25.493	-23.914	13.346	1.00	15.89
ATOM	10961	C	ALA	1630	26.503	-21.443	11.694	1.00	16.92
ATOM	10962	O	ALA	1630	25.460	-21.433	11.052	1.00	15.55

ATOM	10963	N	VAL	1631	27.413	-20.494	11.590	1.00	16.60
ATOM	10964	CA	VAL	1631	27.194	-19.779	10.689	1.00	15.88
ATOM	10965	CB	VAL	1631	27.282	-18.049	11.446	1.00	17.04
ATOM	10966	CG1	VAL	1631	26.996	-16.863	10.475	1.00	15.90
ATOM	10967	CG2	VAL	1631	26.280	-17.984	12.590	1.00	18.38
ATOM	10968	O	VAL	1631	28.200	-19.787	9.534	1.00	15.71
ATOM	10969	C	VAL	1631	29.355	-19.046	9.763	1.00	17.57
ATOM	10970	N	PRO	1632	27.560	-19.725	8.418	1.00	16.10
ATOM	10971	CA	PRO	1632	26.468	-20.262	7.901	1.00	14.50
ATOM	10972	CB	PRO	1632	28.710	-19.706	7.000	1.00	15.24
ATOM	10973	CG	PRO	1632	27.961	-20.438	6.083	1.00	15.98
ATOM	10974	CG	PRO	1632	26.552	-20.108	6.793	1.00	23.78
ATOM	10975	O	PRO	1632	29.625	-18.235	6.857	1.00	18.57
ATOM	10976	O	PRO	1632	28.556	-17.130	6.431	1.00	15.51
ATOM	10977	N	VAL	1633	20.769	-16.082	6.475	1.00	14.68
ATOM	10978	CA	VAL	1633	20.702	-16.664	6.174	1.00	14.60
ATOM	10979	CB	VAL	1633	21.468	-16.113	7.157	1.00	16.39
ATOM	10980	CG1	VAL	1633	22.130	-13.735	6.874	1.00	18.35
ATOM	10981	CG2	VAL	1633	21.10	-16.537	8.593	1.00	15.41
ATOM	10982	O	VAL	1633	21.137	-16.467	4.773	1.00	14.92
ATOM	10983	C	VAL	1633	21.552	-17.111	4.134	1.00	14.86
ATOM	10984	N	CYS	1634	20.871	-15.360	4.183	1.00	13.16
ATOM	10985	CA	CYS	1634	21.52	-14.877	2.891	1.00	15.22
ATOM	10986	CB	CYS	1634	20.186	-14.541	1.951	1.00	14.14
ATOM	10987	CG	CYS	1634	20.713	-13.977	0.836	1.00	17.65
ATOM	10988	C	CYS	1634	22.277	-13.704	3.111	1.00	14.44
ATOM	10989	O	CYS	1634	21.929	-13.87	3.887	1.00	15.27
ATOM	10990	N	GLY	1635	23.451	-13.816	2.578	1.00	15.52
ATOM	10991	CA	GLY	1635	24.400	-11.703	2.779	1.00	14.14
ATOM	10992	C	GLY	1635	24.162	-11.615	1.791	1.00	15.47
ATOM	10993	O	GLY	1635	23.552	-11.276	0.846	1.00	16.16
ATOM	10994	N	HIS	1636	24.803	-10.408	1.938	1.00	16.26
ATOM	10995	CA	HIS	1636	24.709	-9.864	1.009	1.00	18.95
ATOM	10996	CB	HIS	1636	23.568	-8.853	1.417	1.00	19.60
ATOM	10997	CG	HIS	1636	25.099	-7.161	0.156	1.00	20.41
ATOM	10998	CD2	HIS	1636	23.132	-6.864	-0.607	1.00	20.13
ATOM	10999	ND1	HIS	1636	21.937	-6.257	0.063	1.00	20.81
ATOM	11000	HE1	HIS	1636	21.838	-6.843	-0.100	1.00	20.55
ATOM	11001	HE2	HIS	1636	20.960	-5.083	-1.110	1.00	20.46
ATOM	11002	C	HIS	1636	21.457	-4.481	1.007	1.00	21.06
ATOM	11003	O	HIS	1636	23.171	-3.569	2.006	1.00	23.03
ATOM	11004	N	LEU	1637	23.788	-3.271	0.130	1.00	23.97
ATOM	11005	CA	LEU	1637	23.922	-2.864	-0.000	1.00	24.89
ATOM	11006	CB	LEU	1637	23.123	-2.003	-0.153	1.00	24.90
ATOM	11007	CG	LEU	1637	23.379	-2.639	1.007	1.00	26.13
ATOM	11008	CD1	LEU	1637	20.619	-1.824	0.077	1.00	24.93
ATOM	11009	CD2	LEU	1637	22.804	-1.733	2.007	1.00	26.07
ATOM	11010	C	LEU	1637	23.126	-0.864	-1.110	1.00	26.65
ATOM	11011	O	LEU	1637	22.133	-0.333	-2.117	1.00	24.18
ATOM	11012	N	GLY	1638	21.662	-1.000	-1.134	1.00	23.25
ATOM	11013	CA	GLY	1638	20.963	-1.411	-2.310	1.00	23.56
ATOM	11014	C	GLY	1638	21.131	-0.334	-1.007	1.00	23.61
ATOM	11015	O	GLY	1638	21.664	-0.361	-0.358	1.00	23.30
ATOM	11016	N	LEU	1638	22.537	-0.141	-2.310	1.00	23.17
ATOM	11017	CA	LEU	1638	22.834	-1.093	-2.355	1.00	27.72
ATOM	11018	CB	LEU	1638	22.311	-0.843	-2.355	1.00	26.18
ATOM	11019	CG	LEU	1638	21.036	-0.163	-1.000	1.00	30.72
ATOM	11020	CD1	LEU	1638	21.667	-0.227	-5.132	1.00	31.76
ATOM	11021	CD2	LEU	1638	24.469	-0.223	-5.066	1.00	30.98
ATOM	11022	C	LEU	1638	25.657	-2.120	-1.621	1.00	23.43
ATOM	11023	O	LEU	1638	24.575	-2.531	-2.063	1.00	26.50
ATOM	11024	N	THR	1639	25.430	-2.013	-0.329	1.00	23.20
ATOM	11025	CA	THR	1639	24.366	-2.159	0.698	1.00	23.91
ATOM	11026	CB	THR	1639	25.432	-2.865	1.370	1.00	23.17
ATOM	11027	CG1	THR	1639	26.517	-2.096	2.442	1.00	30.62
ATOM	11028	CG2	THR	1639	25.968	-4.135	1.670	1.00	30.17
ATOM	11029	C	THR	1639	24.171	-0.451	1.057	1.00	23.17
ATOM	11030	O	THR	1639	24.667	-0.177	1.374	1.00	29.15
ATOM	11031	N	PRO	1640	22.991	-0.096	0.463	1.00	27.49
ATOM	11032	CD	PRO	1640	22.251	-1.095	-0.329	1.00	27.96
ATOM	11033	CA	PRO	1640	22.189	-0.002	0.674	1.00	26.18
ATOM	11034	CB	PRO	1640	23.897	-0.002	-0.022	1.00	26.35
ATOM	11035	CG	PRO	1640	-0.332	-1.190	-0.038	1.00	29.35
ATOM	11036	C	PRO	1640	21.952	0.077	2.124	1.00	25.02
ATOM	11037	O	PRO	1640	21.763	2.174	2.332	1.00	24.64
ATOM	11038	N	GLN	1642	21.968	0.964	3.070	1.00	23.18
ATOM	11039	CA	GLN	1642	21.768	0.475	4.459	1.00	23.68

ATOM	11041	HE	GLN	1642	41.161	-9.751	5.169	1.00	24.24
ATOM	11041	CB	GLN	1642	39.249	-1.497	5.471	1.00	22.11
ATOM	11042	HI	GLN	1642	39.192	-2.633	6.104	1.00	25.04
ATOM	11042	HE1	GLN	1642	31.017	-2.910	7.025	1.00	23.03
ATOM	11044	NEH	GLN	1642	29.204	-3.457	5.295	1.00	23.55
ATOM	11044	C	GLN	1642	32.932	1.367	4.911	1.00	24.13
ATOM	11044	O	GLN	1642	32.781	2.160	5.842	1.00	24.32
ATOM	11047	N	SER	1643	34.061	1.235	4.127	1.00	27.66
ATOM	11048	CA	SER	1643	35.246	2.028	4.159	1.00	24.17
ATOM	11049	CB	SER	1643	36.478	1.116	4.596	1.00	25.24
ATOM	11050	OG	SER	1643	36.242	0.116	5.570	1.00	21.44
ATOM	11051	C	SER	1643	35.674	3.157	3.516	1.00	25.48
ATOM	11052	O	SER	1643	35.602	3.614	3.168	1.00	24.46
ATOM	11053	N	VAL	1644	34.400	3.598	2.908	1.00	26.06
ATOM	11054	CA	VAL	1644	34.402	4.671	1.924	1.00	26.14
ATOM	11055	CB	VAL	1644	33.109	5.080	1.402	1.00	25.49
ATOM	11056	CG1	VAL	1644	32.352	5.613	2.541	1.00	26.03
ATOM	11057	CG2	VAL	1644	33.356	6.110	0.392	1.00	25.29
ATOM	11058	C	VAL	1644	35.209	5.905	2.501	1.00	27.56
ATOM	11059	O	VAL	1644	36.067	6.500	1.847	1.00	27.45
ATOM	11060	N	ASN	1645	34.266	6.282	3.732	1.00	27.89
ATOM	11061	CA	ASN	1645	35.480	7.452	4.359	1.00	28.19
ATOM	11062	CB	ASN	1645	34.779	7.776	5.682	1.00	27.21
ATOM	11063	CG	ASN	1645	33.131	8.190	5.486	1.00	25.14
ATOM	11064	GL1	ASN	1645	33.045	9.263	4.967	1.00	27.31
ATOM	11065	ND2	ASN	1645	31.408	7.321	5.688	1.00	25.99
ATOM	11066	C	ASN	1645	36.071	7.241	4.199	1.00	29.53
ATOM	11067	O	ASN	1645	37.735	8.205	4.656	1.00	29.64
ATOM	11068	N	ILE	1646	37.373	5.973	4.715	1.00	30.78
ATOM	11069	CA	ILE	1646	38.272	5.626	4.931	1.00	31.32
ATOM	11070	CB	ILE	1646	38.225	4.153	5.196	1.00	31.95
ATOM	11071	CG2	ILE	1646	40.199	3.752	5.977	1.00	31.10
ATOM	11072	CG1	ILE	1646	38.155	3.977	6.806	1.00	31.77
ATOM	11073	CD1	ILE	1646	39.271	4.789	7.862	1.00	31.61
ATOM	11074	C	ILE	1646	39.162	5.803	3.634	1.00	33.51
ATOM	11075	O	ILE	1646	40.151	6.577	3.644	1.00	34.78
ATOM	11076	N	PHE	1647	39.109	5.324	2.326	1.00	34.55
ATOM	11077	CA	PHE	1647	39.161	5.439	1.121	1.00	31.75
ATOM	11078	CB	PHE	1647	39.183	4.429	0.127	1.00	28.18
ATOM	11079	CG	PHE	1647	39.051	3.014	0.724	1.00	27.21
ATOM	11080	CD1	PHE	1647	40.181	2.335	1.000	1.00	27.15
ATOM	11081	CD2	PHE	1647	37.181	2.757	0.631	1.00	26.37
ATOM	11082	C	PHE	1647	40.134	1.123	1.167	1.00	28.58
ATOM	11083	CE2	PHE	1647	37.141	0.943	1.096	1.00	26.69
ATOM	11084	CZ	PHE	1647	39.181	0.775	1.601	1.00	28.61
ATOM	11085	O	PHE	1647	39.111	6.840	0.645	1.00	36.39
ATOM	11086	O	PHE	1647	40.183	2.243	-0.132	1.00	26.05
ATOM	11087	N	GLY	1648	38.318	2.577	1.170	1.00	36.62
ATOM	11088	CA	GLY	1648	38.379	8.919	0.610	1.00	38.10
ATOM	11089	C	GLY	1648	37.121	8.878	-0.671	1.00	41.02
ATOM	11090	O	GLY	1648	37.106	9.822	-1.113	1.00	41.07
ATOM	11091	N	GLY	1648	36.101	7.773	-0.796	1.00	41.09
ATOM	11092	CA	GLY	1648	38.344	2.609	-1.356	1.00	41.04
ATOM	11093	C	GLY	1648	36.899	6.146	-2.177	1.00	41.17
ATOM	11094	O	GLY	1648	36.553	5.324	-3.176	1.00	41.14
ATOM	11095	N	TYR	1650	39.119	5.927	-3.476	1.00	41.07
ATOM	11096	CA	TYR	1650	39.124	4.542	-4.178	1.00	41.61
ATOM	11097	CB	TYR	1650	38.600	4.258	-4.735	1.00	43.67
ATOM	11098	CG	TYR	1650	37.751	4.336	-3.113	1.00	44.02
ATOM	11099	CD1	TYR	1650	37.143	5.633	-3.448	1.00	44.47
ATOM	11100	CD2	TYR	1650	31.141	5.783	-2.487	1.00	44.46
ATOM	11101	CD2	TYR	1650	32.291	3.235	-2.988	1.00	43.45
ATOM	11102	CE2	TYR	1650	31.291	3.344	-2.011	1.00	44.29
ATOM	11103	CZ	TYR	1650	30.723	4.637	-1.777	1.00	48.07
ATOM	11104	OH	TYR	1650	39.735	4.767	-0.327	1.00	48.36
ATOM	11105	C	TYR	1650	36.272	4.448	-5.280	1.00	46.09
ATOM	11106	O	TYR	1650	35.975	4.647	-6.113	1.00	45.93
ATOM	11107	N	LYS	1651	37.503	4.135	-4.981	1.00	46.34
ATOM	11108	CA	LYS	1651	38.614	4.077	-5.815	1.00	46.77
ATOM	11109	CB	LYS	1651	39.895	4.840	-5.306	1.00	47.31
ATOM	11110	CG	LYS	1651	39.467	6.325	-4.935	1.00	49.04
ATOM	11111	CD	LYS	1651	39.646	7.053	-4.385	1.00	50.24
ATOM	11112	CE	LYS	1651	39.313	8.473	-3.962	1.00	51.15
ATOM	11113	NZ	LYS	1651	31.543	9.238	-3.468	1.00	53.01
ATOM	11114	C	LYS	1651	39.026	2.618	-5.932	1.00	46.53
ATOM	11115	O	LYS	1651	38.815	1.797	-5.037	1.00	46.02
ATOM	11116	N	VAL	1652	39.614	2.300	-7.131	1.00	46.03

ATOM	11117	CA	VAL	1652	40.063	0.941	-7.409	1.00	45.48
ATOM	11118	CB	VAL	1652	40.715	0.838	-8.803	1.00	45.11
ATOM	11119	CG1	VAL	1652	41.216	-0.577	-9.039	1.00	45.09
ATOM	11120	CG2	VAL	1652	39.708	1.228	-9.874	1.00	44.78
ATOM	11121	C	VAL	1652	41.030	0.510	-6.360	1.00	45.61
ATOM	11122	O	VAL	1652	41.910	1.207	-5.951	1.00	44.96
ATOM	11123	N	GIN	1653	41.612	-0.735	-5.963	1.00	45.29
ATOM	11124	CA	GIN	1653	41.917	-1.286	-4.955	1.00	45.81
ATOM	11125	CB	GIN	1653	41.109	-1.795	-7.798	1.00	47.31
ATOM	11126	CG	GIN	1653	41.737	-1.510	-7.405	1.00	47.72
ATOM	11127	CD	GIN	1653	41.812	-0.077	-7.097	1.00	47.56
ATOM	11128	CE1	GIN	1653	40.897	0.683	-7.123	1.00	47.96
ATOM	11129	CE2	GIN	1653	42.611	0.451	-7.796	1.00	48.46
ATOM	11130	C	GIN	1653	42.745	-2.427	-5.549	1.00	48.65
ATOM	11131	O	GIN	1653	42.240	-3.046	-6.525	1.00	48.37
ATOM	11132	N	GLY	1654	42.907	-2.686	-4.957	1.00	48.92
ATOM	11133	CA	GLY	1654	44.758	-3.777	-5.456	1.00	46.35
ATOM	11134	C	GLY	1654	45.941	-2.777	-6.324	1.00	47.53
ATOM	11135	O	GLY	1654	46.917	-3.974	-6.457	1.00	46.50
ATOM	11136	N	ARG	1655	45.763	-2.066	-6.320	1.00	48.61
ATOM	11137	CA	ARG	1655	46.797	-1.577	-7.778	1.00	49.79
ATOM	11138	CB	ARG	1655	46.421	-0.667	-8.341	1.00	50.69
ATOM	11139	CG	ARG	1655	45.757	0.099	-6.980	1.00	51.67
ATOM	11140	CD	ARG	1655	45.449	0.007	-10.469	1.00	52.58
ATOM	11141	NE	ARG	1655	44.145	0.096	-11.297	1.00	52.70
ATOM	11142	CZ	ARG	1655	43.421	1.131	-11.379	1.00	52.20
ATOM	11143	NH1	ARG	1655	42.458	1.205	-10.354	1.00	52.02
ATOM	11144	NH2	ARG	1655	42.760	1.134	-12.175	1.00	51.43
ATOM	11145	C	ARG	1655	48.146	-1.512	-7.071	1.00	50.62
ATOM	11146	O	ARG	1655	48.728	-0.870	-6.665	1.00	50.32
ATOM	11147	N	GLY	1656	49.693	-1.182	-7.597	1.00	51.16
ATOM	11148	CA	GLY	1656	50.417	-2.273	-6.784	1.00	52.70
ATOM	11149	C	GLY	1656	50.786	-3.773	-6.571	1.00	53.14
ATOM	11150	O	GLY	1656	49.959	-3.640	-6.523	1.00	53.20
ATOM	11151	N	ASP	1657	51.041	-3.829	-6.119	1.00	53.65
ATOM	11152	CA	ASP	1657	52.123	-3.170	-5.749	1.00	53.80
ATOM	11153	CB	ASP	1657	51.433	-3.378	-5.770	1.00	53.47
ATOM	11154	CG	ASP	1657	51.403	-3.777	-7.740	1.00	56.62
ATOM	11155	OD1	ASP	1657	52.067	-6.377	-8.722	1.00	56.60
ATOM	11156	OD2	ASP	1657	52.144	-3.474	-7.712	1.00	57.58
ATOM	11157	C	ASP	1657	52.103	-6.292	-4.473	1.00	53.99
ATOM	11158	O	ASP	1657	52.72	-6.424	-7.77	1.00	52.89
ATOM	11159	N	GLU	1658	52.786	-1.474	-3.747	1.00	52.53
ATOM	11160	CA	GLU	1658	52.74	-4.707	-1.717	1.00	52.30
ATOM	11161	CB	GLU	1658	52.827	-3.182	-1.213	1.00	53.17
ATOM	11162	CG	GLU	1658	52.533	-3.184	0.766	1.00	54.62
ATOM	11163	CD	GLU	1658	53.13	-1.077	0.77	1.00	55.75
ATOM	11164	OE1	GLU	1658	53.717	-1.562	0.796	1.00	56.22
ATOM	11165	OE2	GLU	1658	53.897	-1.443	1.709	1.00	55.93
ATOM	11166	C	GLU	1658	52.757	-3.772	-1.77	1.00	52.74
ATOM	11167	O	GLU	1658	52.491	-5.640	-0.777	1.00	50.90
ATOM	11168	N	ALA	1659	52.017	-3.770	-2.119	1.00	49.34
ATOM	11169	CA	ALA	1659	48.77	-1.469	-1.666	1.00	49.95
ATOM	11170	CB	ALA	1659	48.769	-1.704	-1.677	1.00	48.15
ATOM	11171	C	ALA	1659	48.747	-1.773	-2.77	1.00	48.33
ATOM	11172	O	ALA	1659	48.789	-1.687	-1.767	1.00	48.39
ATOM	11173	N	GLY	1660	48.179	-1.815	-3.718	1.00	44.15
ATOM	11174	CA	GLY	1660	48.737	-3.774	-4.67	1.00	41.35
ATOM	11175	C	GLY	1660	48.777	-3.735	-3.727	1.00	40.38
ATOM	11176	O	GLY	1660	48.707	-3.725	-3.767	1.00	38.65
ATOM	11177	N	ASP	1661	48.739	-6.299	-1.144	1.00	39.09
ATOM	11178	CA	ASP	1661	50.755	-9.343	-1.771	1.00	39.26
ATOM	11179	CB	ASP	1661	51.764	-8.293	-1.755	1.00	42.10
ATOM	11180	CG	ASP	1661	52.768	-9.258	-3.49	1.00	42.42
ATOM	11181	OD1	ASP	1661	52.150	-10.179	-4.708	1.00	43.87
ATOM	11182	OD2	ASP	1661	53.223	-8.360	-3.177	1.00	45.93
ATOM	11183	C	ASP	1661	49.717	-3.386	-0.682	1.00	47.36
ATOM	11184	O	ASP	1661	49.929	-10.460	-3.455	1.00	36.40
ATOM	11185	N	GLN	1662	49.714	-8.211	-0.442	1.00	37.31
ATOM	11186	CA	GLN	1662	48.706	-3.134	0.823	1.00	37.41
ATOM	11187	CB	GLN	1662	48.799	-6.673	1.336	1.00	39.32
ATOM	11188	CG	GLN	1662	47.757	-6.510	2.647	1.00	42.13
ATOM	11189	CD	GLN	1662	47.734	-7.585	3.671	1.00	43.63
ATOM	11190	OE1	GLN	1662	49.108	-7.733	3.993	1.00	44.57
ATOM	11191	NE2	GLN	1662	46.737	-8.251	1.186	1.00	45.03
ATOM	11192	C	GLN	1662	46.772	-8.631	0.694	1.00	46.59
ATOM	11193	O	GLN	1662	46.316	-9.209	1.632	1.00	45.25

ATOM	11184	N	LEU	1663	46.1078	-8.4098	-0.474	1.00	36.15
ATOM	11185	CA	LEU	1663	44.9111	-8.8831	-0.733	1.00	35.64
ATOM	11186	CB	LEU	1663	44.359	-8.196	-1.099	1.00	37.34
ATOM	11187	CG	LEU	1663	44.661	-9.688	-1.919	1.00	39.62
ATOM	11188	CD1	LEU	1663	43.626	-8.198	-3.284	1.00	40.42
ATOM	11189	CD2	LEU	1663	42.921	-8.484	-3.684	1.00	40.72
ATOM	11190	C	LEU	1663	44.880	-10.367	-5.875	1.00	34.89
ATOM	11191	O	LEU	1663	42.997	-11.080	-9.333	1.00	33.09
ATOM	11192	N	LEU	1663	45.850	-10.912	-1.864	1.00	31.69
ATOM	11193	CA	LEU	1663	45.923	-12.053	-1.808	1.00	30.95
ATOM	11194	CB	LEU	1663	45.162	-12.696	-2.736	1.00	34.05
ATOM	11195	CG	LEU	1663	46.949	-12.965	-3.655	1.00	35.66
ATOM	11196	CD1	LEU	1663	46.242	-14.689	-4.444	1.00	37.45
ATOM	11197	CD2	LEU	1663	46.639	-15.155	-5.653	1.00	36.48
ATOM	11198	C	LEU	1663	46.141	-13.026	-9.454	1.00	29.39
ATOM	11199	O	LEU	1663	45.677	-13.101	-9.175	1.00	28.47
ATOM	11210	N	LEU	1663	46.901	-12.031	-0.403	1.00	26.84
ATOM	11211	CA	LEU	1663	47.193	-12.857	-1.713	1.00	25.84
ATOM	11212	CB	LEU	1663	48.242	-12.017	-2.447	1.00	26.63
ATOM	11213	CG	LEU	1663	48.565	-12.558	-3.717	1.00	28.52
ATOM	11214	C	LEU	1663	45.892	-12.931	-2.533	1.00	24.57
ATOM	11215	O	LEU	1663	45.552	-13.949	-2.137	1.00	23.68
ATOM	11216	N	ASP	1666	45.166	-12.815	-2.532	1.00	24.43
ATOM	11217	CA	ASP	1666	43.901	-11.738	-1.258	1.00	25.90
ATOM	11218	CB	ASP	1666	47.296	-10.328	-3.170	1.00	25.16
ATOM	11219	CG	ASP	1666	44.099	-9.196	-1.957	1.00	27.11
ATOM	11220	CD1	ASP	1666	44.604	-9.652	-5.009	1.00	26.45
ATOM	11221	CD2	ASP	1666	44.110	-8.317	-5.534	1.00	27.04
ATOM	11222	C	ASP	1666	42.913	-12.759	-2.714	1.00	25.78
ATOM	11223	O	ASP	1666	42.118	-13.583	-3.473	1.00	27.18
ATOM	11224	N	ALA	1667	42.910	-12.936	-1.397	1.00	25.37
ATOM	11225	CA	ALA	1667	42.013	-13.897	-0.765	1.00	24.67
ATOM	11226	CB	ALA	1667	42.187	-13.849	-0.754	1.00	24.78
ATOM	11227	C	ALA	1667	42.297	-15.194	-1.287	1.00	24.19
ATOM	11228	O	ALA	1667	41.302	-16.026	-1.673	1.00	22.35
ATOM	11229	N	LEU	1668	43.500	-15.873	-1.307	1.00	23.07
ATOM	11230	CA	LEU	1668	43.911	-16.896	-1.792	1.00	22.47
ATOM	11231	CB	LEU	1668	45.144	-17.358	-1.506	1.00	23.09
ATOM	11232	CG	LEU	1668	45.707	-17.599	-0.947	1.00	23.46
ATOM	11233	CD1	LEU	1668	47.219	-17.456	-0.186	1.00	24.35
ATOM	11234	CD2	LEU	1668	45.205	-19.067	-0.278	1.00	23.63
ATOM	11235	C	LEU	1668	44.608	-17.140	-1.288	1.00	22.33
ATOM	11236	O	LEU	1668	43.208	-18.311	-3.751	1.00	22.16
ATOM	11237	N	ALA	1669	43.877	-16.355	-4.938	1.00	22.43
ATOM	11238	CA	ALA	1669	43.601	-16.981	-5.479	1.00	22.18
ATOM	11239	CB	ALA	1669	43.006	-14.781	-6.111	1.00	23.50
ATOM	11240	C	ALA	1669	42.117	-16.329	-5.775	1.00	21.67
ATOM	11241	O	ALA	1669	41.809	-17.177	-6.600	1.00	22.22
ATOM	11242	N	LEU	1670	41.204	-15.585	-5.098	1.00	20.26
ATOM	11243	CA	LEU	1670	39.846	-15.721	-5.288	1.00	18.56
ATOM	11244	CB	LEU	1670	39.001	-14.737	-4.401	1.00	19.24
ATOM	11245	CG	LEU	1670	39.265	-13.160	-4.755	1.00	18.45
ATOM	11246	CD1	LEU	1670	38.703	-12.375	-3.662	1.00	19.75
ATOM	11247	CD2	LEU	1670	38.509	-12.471	-6.086	1.00	19.43
ATOM	11248	C	LEU	1670	39.445	-17.146	-4.962	1.00	19.70
ATOM	11249	O	LEU	1670	38.501	-17.714	-5.659	1.00	18.51
ATOM	11250	N	GLU	1671	39.961	-17.320	-3.901	1.00	18.69
ATOM	11251	CA	GLU	1671	39.603	-13.979	-3.918	1.00	19.64
ATOM	11252	CB	GLU	1671	40.303	-13.174	-1.215	1.00	19.59
ATOM	11253	CG	GLU	1671	40.042	-20.329	-1.816	1.00	22.91
ATOM	11254	CD	GLU	1671	40.790	-21.305	-0.530	1.00	24.31
ATOM	11255	OE1	GLU	1671	42.015	-21.096	-0.458	1.00	23.91
ATOM	11256	OE2	GLU	1671	40.128	-21.404	-0.398	1.00	27.07
ATOM	11257	C	GLU	1671	39.978	-20.970	-4.616	1.00	18.25
ATOM	11258	O	GLU	1671	39.164	-20.301	-5.016	1.00	17.58
ATOM	11259	N	ALA	1672	41.217	-19.985	-5.095	1.00	19.38
ATOM	11260	CA	ALA	1672	41.638	-20.479	-6.148	1.00	20.26
ATOM	11261	CB	ALA	1672	43.164	-20.623	-6.434	1.00	21.78
ATOM	11262	C	ALA	1672	40.870	-20.710	-7.429	1.00	21.55
ATOM	11263	O	ALA	1672	40.684	-21.564	-8.192	1.00	21.04
ATOM	11264	N	ALA	1673	40.332	-19.492	-7.654	1.00	19.63
ATOM	11265	CA	ALA	1673	39.575	-19.175	-8.331	1.00	19.73
ATOM	11266	CB	ALA	1673	39.398	-17.665	-8.952	1.00	18.51
ATOM	11267	C	ALA	1673	38.212	-19.857	-8.782	1.00	20.99
ATOM	11268	O	ALA	1673	37.545	-20.910	-9.807	1.00	19.77
ATOM	11269	N	GLY	1674	37.786	-20.248	-7.584	1.00	20.06
ATOM	11270	CA	GLY	1674	36.510	-20.428	-7.453	1.00	19.89

ATOM	11271	C	GLY	1674	35.552	-20.324	6.444	1.00	18.97
ATOM	11272	O	GLY	1674	34.468	-20.238	6.145	1.00	18.23
ATOM	11273	N	ALA	1675	35.936	-19.217	5.813	1.00	19.69
ATOM	11274	CA	ALA	1675	35.071	-18.589	4.812	1.00	20.14
ATOM	11275	CB	ALA	1675	35.736	-17.712	4.291	1.00	19.92
ATOM	11276	C	ALA	1675	34.830	-18.592	3.630	1.00	21.06
ATOM	11277	O	ALA	1675	35.771	-20.194	3.115	1.00	21.86
ATOM	11278	N	GLA	1676	33.565	-19.741	3.285	1.00	20.43
ATOM	11279	CA	GLA	1676	33.194	-20.659	2.208	1.00	20.46
ATOM	11280	CB	GLA	1676	31.921	-21.426	2.519	1.00	21.87
ATOM	11281	CG	GLA	1676	32.049	-22.250	3.853	1.00	21.52
ATOM	11282	CH	GLA	1676	30.869	-23.067	3.167	1.00	24.30
ATOM	11283	CH1	GLA	1676	30.470	-24.007	3.448	1.00	30.08
ATOM	11284	CH2	GLA	1676	30.116	-24.707	3.240	1.00	29.15
ATOM	11285	C	GLN	1676	32.982	-19.938	0.829	1.00	19.56
ATOM	11286	O	GLN	1676	31.821	-20.572	-0.163	1.00	20.08
ATOM	11287	N	LEU	1677	32.973	-18.712	-0.307	1.00	20.26
ATOM	11288	CA	LEU	1677	32.797	-17.792	-0.257	1.00	20.79
ATOM	11289	CB	LEU	1677	31.714	-17.476	-0.487	1.00	21.99
ATOM	11290	CG	LEU	1677	30.499	-18.528	-1.123	1.00	20.39
ATOM	11291	CH1	LEU	1677	29.007	-18.325	-0.979	1.00	20.62
ATOM	11292	CH2	LEU	1677	30.621	-18.426	-2.711	1.00	21.79
ATOM	11293	C	LEU	1677	33.570	-16.496	-0.091	1.00	21.45
ATOM	11294	O	LEU	1677	33.826	-16.056	1.639	1.00	20.88
ATOM	11295	N	LEU	1678	33.944	-15.881	-1.219	1.00	17.59
ATOM	11296	CA	LEU	1678	34.675	-14.817	-1.168	1.00	20.63
ATOM	11297	CB	LEU	1678	36.189	-14.847	-1.284	1.00	19.25
ATOM	11298	CG	LEU	1678	35.026	-13.574	-1.447	1.00	21.72
ATOM	11299	CH1	LEU	1678	36.892	-12.699	-0.267	1.00	19.17
ATOM	11300	CH2	LEU	1678	36.487	-13.357	-1.671	1.00	2.98
ATOM	11301	C	LEU	1679	34.238	-17.695	-2.233	1.00	19.21
ATOM	11302	O	LEU	1679	34.090	-14.119	-3.431	1.00	20.80
ATOM	11303	N	VAL	1679	34.076	-17.475	-1.947	1.00	19.56
ATOM	11304	CA	VAL	1679	33.479	-11.405	-2.923	1.00	20.39
ATOM	11305	CB	VAL	1679	32.395	-10.630	-2.416	1.00	19.97
ATOM	11306	CG1	VAL	1679	32.302	-9.423	-3.359	1.00	19.05
ATOM	11307	CG2	VAL	1679	31.145	-11.517	-2.313	1.00	17.14
ATOM	11308	C	VAL	1679	34.799	-10.462	-2.121	1.00	21.00
ATOM	11309	O	VAL	1679	33.833	-9.989	-2.143	1.00	20.40
ATOM	11310	N	LEU	1680	33.174	-10.249	-4.137	1.00	21.37
ATOM	11311	CA	LEU	1680	36.359	-9.315	-4.745	1.00	24.69
ATOM	11312	CB	LEU	1680	35.167	-10.617	-5.667	1.00	25.83
ATOM	11313	CG	LEU	1680	34.561	-10.510	-5.135	1.00	23.71
ATOM	11314	CH1	LEU	1680	32.114	-11.167	-6.131	1.00	23.11
ATOM	11315	CH2	LEU	1680	33.375	-9.338	-4.857	1.00	23.00
ATOM	11316	C	LEU	1680	33.631	-8.147	-5.433	1.00	20.79
ATOM	11317	O	LEU	1680	34.934	-6.738	-6.117	1.00	23.31
ATOM	11318	N	GLU	1681	31.339	-6.934	-4.856	1.00	21.89
ATOM	11319	CA	GLU	1681	33.262	-7.753	-5.613	1.00	20.33
ATOM	11320	CB	GLU	1681	34.233	-7.165	-4.616	1.00	23.80
ATOM	11321	CG	GLU	1681	33.733	-6.665	-5.674	1.00	23.17
ATOM	11322	CD	GLU	1681	32.330	-5.133	-4.164	1.00	21.80
ATOM	11323	OE1	GLU	1681	32.430	-5.717	-3.327	1.00	23.14
ATOM	11324	OE2	GLU	1681	32.329	-5.136	-4.164	1.00	23.76
ATOM	11325	C	GLU	1681	36.232	-4.732	-6.157	1.00	23.77
ATOM	11326	O	GLU	1681	37.131	-3.327	-5.617	1.00	23.68
ATOM	11327	N	CYS	1682	36.117	-3.654	-7.159	1.00	23.08
ATOM	11328	CA	CYS	1682	36.332	-3.378	-8.645	1.00	33.51
ATOM	11329	CB	CYS	1682	36.502	-4.968	-7.633	1.00	30.60
ATOM	11330	SG	CYS	1682	34.887	-1.555	-8.151	1.00	33.38
ATOM	11331	C	CYS	1682	38.463	-3.532	-7.159	1.00	31.19
ATOM	11332	O	CYS	1682	39.035	-2.841	-6.184	1.00	31.08
ATOM	11333	N	VAL	1683	39.033	-4.593	-8.405	1.00	31.30
ATOM	11334	CA	VAL	1683	40.436	-4.922	-8.148	1.00	31.78
ATOM	11335	CB	VAL	1683	40.609	-6.146	-7.312	1.00	33.51
ATOM	11336	CG1	VAL	1683	40.443	-7.443	-8.094	1.00	31.50
ATOM	11337	CG2	VAL	1683	41.927	-6.085	-6.596	1.00	34.74
ATOM	11338	C	VAL	1683	40.971	-5.249	-9.635	1.00	33.45
ATOM	11339	O	VAL	1683	40.218	-5.684	-10.516	1.00	33.44
ATOM	11340	N	PRO	1684	42.274	-5.324	-9.887	1.00	33.91
ATOM	11341	CD	PRO	1684	43.339	-4.567	-8.979	1.00	33.50
ATOM	11342	CA	PRO	1684	42.317	-5.330	-11.216	1.00	33.77
ATOM	11343	CB	PRO	1684	41.397	-5.311	-11.066	1.00	34.17
ATOM	11344	CG	PRO	1684	41.558	-5.205	-9.598	1.00	34.44
ATOM	11345	C	PRO	1684	42.557	-6.783	-11.515	1.00	33.167
ATOM	11346	O	PRO	1684	42.807	-7.693	-10.806	1.00	33.93
ATOM	11347	N	VAL	1685	42.043	-6.987	-12.802	1.00	33.35

ATOM	11348	CA	VAL	1685	41.771	-8.331	-18.301	1.00	33.55
ATOM	11349	CB	VAL	1685	41.535	-9.305	-14.877	1.00	33.86
ATOM	11350	CG1	VAL	1685	40.993	-9.650	-18.196	1.00	33.59
ATOM	11351	CG2	VAL	1685	40.601	-9.195	-18.316	1.00	33.41
ATOM	11352	O	VAL	1685	42.817	-6.343	-12.877	1.00	34.69
ATOM	11353	O	VAL	1685	42.579	-10.636	-12.463	1.00	33.21
ATOM	11354	N	GLU	1686	44.065	-8.994	-15.179	1.00	37.15
ATOM	11355	CA	GLU	1686	45.185	-8.693	-18.014	1.00	37.45
ATOM	11356	CB	GLU	1686	46.512	-9.245	-14.449	1.00	46.77
ATOM	11357	CG	GLU	1686	46.516	-7.719	-13.470	1.00	45.35
ATOM	11358	CD	GLU	1686	45.716	-7.134	-14.631	1.00	47.06
ATOM	11359	CE1	GLU	1686	45.988	-7.571	-15.193	1.00	48.37
ATOM	11360	CE2	GLU	1686	44.820	-6.310	-14.383	1.00	49.33
ATOM	11361	C	LEU	1686	45.259	-10.126	-11.575	1.00	35.59
ATOM	11362	O	LEU	1686	45.676	-11.460	-11.149	1.00	35.39
ATOM	11363	N	LEU	1687	44.896	-9.477	-12.656	1.00	34.93
ATOM	11364	CA	LEU	1687	44.926	-9.343	-9.284	1.00	34.56
ATOM	11365	CB	LEU	1687	44.773	-8.473	-8.403	1.00	36.48
ATOM	11366	CG	LEU	1687	45.413	-8.477	-7.007	1.00	38.23
ATOM	11367	CD1	LEU	1687	45.086	-7.168	-6.311	1.00	39.44
ATOM	11368	CD2	LEU	1687	44.909	-9.646	-6.183	1.00	40.16
ATOM	11369	C	LEU	1687	43.783	-10.706	-8.974	1.00	37.56
ATOM	11370	C	LEU	1687	43.940	-11.656	-8.166	1.00	37.33
ATOM	11371	N	ALA	1688	42.633	-10.455	-9.512	1.00	37.02
ATOM	11372	CA	ALA	1688	41.467	-11.303	-9.374	1.00	37.09
ATOM	11373	CB	ALA	1688	40.285	-10.748	-10.174	1.00	37.62
ATOM	11374	C	ALA	1688	41.798	-12.313	-9.841	1.00	37.88
ATOM	11375	C	ALA	1688	41.306	-13.698	-9.288	1.00	36.36
ATOM	11376	N	LYS	1689	42.642	-12.799	-10.865	1.00	37.10
ATOM	11377	CA	LYS	1689	43.065	-14.080	-11.420	1.00	37.59
ATOM	11378	CB	LYS	1689	43.921	-13.852	-12.667	1.00	37.35
ATOM	11379	CG	LYS	1689	43.301	-12.915	-13.688	1.00	39.20
ATOM	11380	CD	LYS	1689	44.230	-12.702	-14.875	1.00	43.71
ATOM	11381	CE	LYS	1689	43.639	-11.725	-15.875	1.00	44.72
ATOM	11382	NE	LYS	1689	44.550	-11.492	-17.027	1.00	46.96
ATOM	11383	C	LYS	1689	43.877	-14.854	-10.392	1.00	39.77
ATOM	11384	C	LYS	1689	42.635	-16.040	-10.158	1.00	39.60
ATOM	11385	N	ARG	1690	44.850	-14.172	-9.793	1.00	39.36
ATOM	11386	CA	ARG	1690	45.715	-14.773	-8.782	1.00	39.78
ATOM	11387	CB	ARG	1690	46.706	-13.738	-8.236	1.00	40.24
ATOM	11388	CG	ARG	1690	48.153	-13.968	-8.653	1.00	39.21
ATOM	11389	CD	ARG	1690	49.122	-13.194	-7.366	1.00	38.72
ATOM	11390	NE	ARG	1690	48.987	-11.749	-7.919	1.00	39.52
ATOM	11391	C	ARG	1690	49.548	-10.354	-7.110	1.00	39.81
ATOM	11392	NH1	ARG	1690	50.285	-12.253	-6.982	1.00	39.33
ATOM	11393	NH2	ARG	1690	49.374	-9.357	-7.331	1.00	39.70
ATOM	11394	C	ARG	1690	44.845	-15.329	-7.627	1.00	39.79
ATOM	11395	O	ARG	1690	45.018	-16.503	-7.271	1.00	39.49
ATOM	11396	N	ILE	1691	44.059	-14.475	-7.044	1.00	38.53
ATOM	11397	CA	ILE	1691	43.233	-14.874	-5.920	1.00	37.99
ATOM	11398	CB	ILE	1691	42.349	-13.687	-5.478	1.00	37.06
ATOM	11399	CG1	ILE	1691	41.431	-14.141	-4.319	1.00	37.07
ATOM	11400	CG2	ILE	1691	43.230	-12.569	-4.949	1.00	37.59
ATOM	11401	CD	ILE	1691	43.571	-12.367	-4.377	1.00	37.13
ATOM	11402	O	ILE	1691	42.322	-16.053	-6.278	1.00	38.14
ATOM	11403	O	ILE	1691	42.287	-13.044	-5.521	1.00	37.63
ATOM	11404	N	THR	1692	41.635	-15.952	-7.412	1.00	37.84
ATOM	11405	CA	THR	1692	40.713	-17.016	-7.852	1.00	38.13
ATOM	11406	CB	THR	1692	40.049	-16.670	-9.237	1.00	37.32
ATOM	11407	CG1	THR	1692	39.395	-15.477	-9.070	1.00	37.45
ATOM	11408	CG2	THR	1692	39.142	-17.799	-9.672	1.00	37.79
ATOM	11409	C	THR	1692	41.468	-18.352	-7.975	1.00	37.83
ATOM	11410	O	THR	1692	40.967	-19.378	-7.523	1.00	37.26
ATOM	11411	N	GLU	1693	42.649	-18.346	-8.585	1.00	37.86
ATOM	11412	CA	GLU	1693	43.410	-19.582	-8.739	1.00	37.66
ATOM	11413	CB	GLU	1693	44.509	-19.403	-9.738	1.00	37.46
ATOM	11414	CG	GLU	1693	43.985	-19.142	-11.188	1.00	39.25
ATOM	11415	CD	GLU	1693	45.098	-18.913	-12.193	1.00	41.31
ATOM	11416	CE1	GLU	1693	45.841	-17.920	-12.046	1.00	42.03
ATOM	11417	CE2	GLU	1693	45.227	-19.728	-13.133	1.00	44.22
ATOM	11418	C	GLU	1693	44.031	-20.022	-7.417	1.00	37.18
ATOM	11419	O	GLU	1693	44.220	-21.219	-7.160	1.00	37.59
ATOM	11420	N	ALA	1694	44.339	-19.055	-6.556	1.00	39.06
ATOM	11421	CA	ALA	1694	44.954	-19.349	-5.263	1.00	38.83
ATOM	11422	CB	ALA	1694	45.568	-18.077	-4.681	1.00	38.10
ATOM	11423	C	ALA	1694	43.997	-19.975	-4.252	1.00	38.71
ATOM	11424	O	ALA	1694	44.398	-20.833	-3.463	1.00	37.81

ATOM	11433	N	LEU	1695	40.734	-19.556	-4.273	1.00	26.34
ATOM	11436	CA	LEU	1695	41.750	-20.103	-3.336	1.00	28.55
ATOM	11437	CB	LEU	1695	40.729	-19.075	-3.946	1.00	26.01
ATOM	11438	CG	LEU	1695	41.242	-17.849	-2.121	1.00	30.89
ATOM	11439	CD1	LEU	1695	40.062	-16.980	-1.700	1.00	27.57
ATOM	11439	CD1	LEU	1695	41.989	-18.348	-0.298	1.00	32.34
ATOM	11441	O	LEU	1695	41.062	-21.306	-3.886	1.00	26.44
ATOM	11441	O	LEU	1695	40.848	-21.452	-5.096	1.00	27.20
ATOM	11442	N	ALA	1696	40.541	-22.168	-2.691	1.00	24.30
ATOM	11443	CA	ALA	1696	39.790	-23.246	-1.391	1.00	27.55
ATOM	11443	CB	ALA	1696	40.076	-24.479	-1.415	1.00	27.99
ATOM	11444	O	ALA	1696	39.323	-22.983	-1.416	1.00	27.10
ATOM	11445	O	ALA	1696	37.561	-23.440	-4.779	1.00	24.16
ATOM	11446	N	ILE	1697	37.866	-22.155	-1.464	1.00	27.53
ATOM	11446	CA	ILE	1697	36.506	-21.184	-2.791	1.00	27.71
ATOM	11447	CB	ILE	1697	36.311	-20.965	-1.782	1.00	17.96
ATOM	11448	CG2	ILE	1697	36.340	-21.897	-0.113	1.00	17.11
ATOM	11448	CG1	ILE	1697	37.158	-19.776	-0.951	1.00	17.41
ATOM	11448	CD1	ILE	1697	36.776	-18.806	-0.147	1.00	20.97
ATOM	11448	O	ILE	1697	36.185	-20.827	-3.571	1.00	16.34
ATOM	11448	O	ILE	1697	37.073	-20.106	-4.155	1.00	20.05
ATOM	11449	N	PRO	1698	34.903	-20.739	-2.948	1.00	21.40
ATOM	11447	CD	PRO	1698	33.743	-21.568	-2.421	1.00	20.73
ATOM	11448	CA	PRO	1698	34.541	-19.878	-5.074	1.00	20.26
ATOM	11449	CB	PRO	1698	33.162	-20.802	-5.393	1.00	21.48
ATOM	11450	CG	PRO	1698	32.594	-20.847	-4.113	1.00	23.95
ATOM	11451	C	PRO	1698	34.689	-18.590	-4.769	1.00	20.91
ATOM	11452	O	PRO	1698	34.431	-17.931	-3.650	1.00	16.65
ATOM	11453	N	VAL	1699	35.138	-17.848	-5.776	1.00	16.53
ATOM	11454	CA	VAL	1699	35.337	-16.119	-5.637	1.00	16.92
ATOM	11455	CB	VAL	1699	36.862	-15.840	-5.891	1.00	20.40
ATOM	11456	CG1	VAL	1699	37.002	-14.725	-5.923	1.00	13.70
ATOM	11457	CG2	VAL	1699	37.782	-16.354	-5.028	1.00	14.50
ATOM	11458	C	VAL	1699	34.366	-15.480	-6.160	1.00	21.83
ATOM	11459	O	VAL	1699	34.374	-15.877	-7.779	1.00	23.52
ATOM	11459	N	ILE	1700	33.517	-14.648	-5.967	1.00	22.27
ATOM	11461	CA	ILE	1700	33.154	-13.886	-6.782	1.00	22.16
ATOM	11462	CB	ILE	1700	32.231	-13.759	-5.940	1.00	21.79
ATOM	11463	CG2	ILE	1700	30.242	-12.873	-6.706	1.00	22.27
ATOM	11464	CG1	ILE	1700	30.615	-15.180	-5.709	1.00	22.01
ATOM	11465	CD1	ILE	1700	29.416	-15.157	-4.789	1.00	24.61
ATOM	11466	C	ILE	1700	31.119	-12.364	-6.963	1.00	21.79
ATOM	11467	O	ILE	1700	31.517	-11.838	-6.036	1.00	21.47
ATOM	11468	N	GLY	1701	33.606	-12.979	-8.118	1.00	21.16
ATOM	11469	CA	GLY	1701	32.631	-10.773	-8.116	1.00	20.63
ATOM	11470	C	GLY	1701	32.603	-9.724	-8.918	1.00	21.51
ATOM	11471	O	GLY	1701	31.572	-10.103	-9.447	1.00	22.89
ATOM	11472	N	ILE	1702	32.990	-8.470	-6.941	1.00	24.15
ATOM	11473	CA	ILE	1702	32.184	-7.409	-6.963	1.00	25.08
ATOM	11474	CB	ILE	1702	31.235	-6.466	-7.813	1.00	24.11
ATOM	11475	CG2	ILE	1702	22.039	-6.433	-6.114	1.00	21.79
ATOM	11476	CG1	ILE	1702	30.679	-5.489	-6.615	1.00	23.41
ATOM	11477	CD1	ILE	1702	29.637	-5.185	-5.177	1.00	30.16
ATOM	11478	C	ILE	1702	30.139	-6.034	-7.114	1.00	25.61
ATOM	11479	O	ILE	1702	31.328	-6.353	-8.445	1.00	25.25
ATOM	11480	N	GLY	1703	31.515	-6.981	-10.118	1.00	23.06
ATOM	11481	CA	GLY	1703	34.531	-5.101	-11.017	1.00	24.69
ATOM	11482	C	GLY	1703	35.764	-5.717	-10.114	1.00	25.54
ATOM	11483	O	GLY	1703	36.873	-5.917	-10.880	1.00	27.11
ATOM	11484	N	ALA	1704	35.945	-7.937	-11.164	1.00	24.77
ATOM	11485	CA	ALA	1704	37.134	-7.957	-10.830	1.00	26.19
ATOM	11486	CB	ALA	1704	37.137	-8.691	-9.777	1.00	24.95
ATOM	11487	C	ALA	1704	37.454	-8.582	-12.738	1.00	26.93
ATOM	11488	O	ALA	1704	38.234	-9.482	-12.250	1.00	27.62
ATOM	11489	N	GLY	1705	36.725	-8.256	-14.393	1.00	27.42
ATOM	11490	CA	GLY	1705	36.835	-8.993	-14.745	1.00	27.32
ATOM	11491	C	GLY	1705	36.120	-10.297	-14.348	1.00	27.69
ATOM	11492	O	GLY	1705	35.490	-10.653	-14.551	1.00	28.16
ATOM	11493	N	ASN	1706	36.170	-11.017	-15.666	1.00	26.41
ATOM	11494	CA	ASN	1706	35.452	-12.279	-15.401	1.00	26.15
ATOM	11495	CB	ASN	1706	34.909	-12.423	-17.239	1.00	23.81
ATOM	11496	CG	ASN	1706	36.097	-12.410	-18.293	1.00	30.05
ATOM	11497	OD1	ASN	1706	35.750	-12.663	-19.462	1.00	32.36
ATOM	11498	ND2	ASN	1706	37.231	-12.111	-17.366	1.00	27.42
ATOM	11499	C	ASN	1706	36.306	-13.492	-15.452	1.00	27.06
ATOM	11500	O	ASN	1706	36.095	-14.603	-15.874	1.00	28.09
ATOM	11501	N	VAL	1707	37.358	-13.268	-14.669	1.00	25.49

ATOM	11502	CA	VAL	1707	38.170	-14.335	-14.158	1.00	27.59
ATOM	11503	CB	VAL	1707	39.700	-13.786	-14.647	1.00	29.11
ATOM	11504	CG1	VAL	1707	40.656	-14.914	-13.711	1.00	33.43
ATOM	11505	CG2	VAL	1707	40.169	-13.053	-15.199	1.00	30.80
ATOM	11506	C	VAL	1707	37.815	-15.016	-12.667	1.00	26.87
ATOM	11507	O	VAL	1707	38.311	-16.088	-12.812	1.00	26.60
ATOM	11508	N	THR	1708	26.878	-14.389	-12.163	1.00	24.16
ATOM	11509	CA	THR	1708	26.364	-14.948	-11.019	1.00	24.16
ATOM	11510	CB	THR	1708	25.625	-13.867	-10.227	1.00	22.28
ATOM	11511	CG1	THR	1708	24.731	-13.145	-11.059	1.00	20.56
ATOM	11512	CG2	THR	1708	26.620	-12.894	-9.582	1.00	22.51
ATOM	11513	C	THR	1708	25.427	-16.122	-11.300	1.00	27.44
ATOM	11514	O	THR	1708	24.965	-16.364	-12.427	1.00	24.03
ATOM	11515	N	ASP	1709	25.157	-18.921	-10.271	1.00	23.18
ATOM	11516	CA	ASP	1709	24.293	-18.098	-10.498	1.00	24.19
ATOM	11517	CB	ASP	1709	24.425	-18.954	-9.138	1.00	26.29
ATOM	11518	CG	ASP	1709	25.857	-19.162	-8.861	1.00	28.12
ATOM	11519	GD1	ASP	1709	26.395	-20.179	-9.436	1.00	28.85
ATOM	11520	GD2	ASP	1709	26.440	-18.898	-7.876	1.00	27.19
ATOM	11521	C	ASP	1709	22.843	-17.768	-10.408	1.00	24.74
ATOM	11522	O	ASP	1709	22.054	-18.461	-11.182	1.00	23.59
ATOM	11523	N	GLY	1710	22.499	-18.521	-10.127	1.00	22.85
ATOM	11524	CA	GLY	1710	21.143	-16.632	-10.261	1.00	21.16
ATOM	11525	C	GLY	1710	21.131	-14.522	-10.289	1.00	19.07
ATOM	11526	O	GLY	1710	22.162	-13.876	-10.113	1.00	18.72
ATOM	11527	N	GLN	1711	29.949	-13.946	-10.505	1.00	18.54
ATOM	11528	CA	GLN	1711	29.793	-12.510	-10.570	1.00	18.89
ATOM	11529	CB	GLN	1711	29.502	-12.074	-12.007	1.00	18.46
ATOM	11530	CG	GLN	1711	30.591	-12.173	-13.018	1.00	15.95
ATOM	11531	CD	GLN	1711	31.848	-11.549	-12.758	1.00	19.73
ATOM	11532	OE1	GLN	1711	31.796	-10.409	-12.418	1.00	20.10
ATOM	11533	NE2	GLN	1711	32.995	-12.137	-12.870	1.00	21.35
ATOM	11534	C	GLN	1711	28.623	-12.636	-9.712	1.00	19.28
ATOM	11535	O	GLN	1711	27.758	-12.852	-9.359	1.00	18.49
ATOM	11536	N	ILE	1712	28.605	-10.767	-9.401	1.00	21.76
ATOM	11537	CA	ILE	1712	27.522	-10.172	-8.634	1.00	23.23
ATOM	11538	CB	ILE	1712	27.772	-10.762	-7.169	1.00	24.48
ATOM	11539	CG2	ILE	1712	28.930	-9.842	-6.709	1.00	25.08
ATOM	11540	CG1	ILE	1712	28.492	-9.873	-6.365	1.00	25.35
ATOM	11541	CD1	ILE	1712	28.465	-10.750	-4.538	1.00	19.02
ATOM	11542	C	ILE	1712	27.374	-8.716	-9.055	1.00	24.12
ATOM	11543	O	ILE	1712	28.328	-8.065	-9.539	1.00	23.00
ATOM	11544	N	LEU	1713	26.172	-8.749	-8.988	1.00	24.17
ATOM	11545	CA	LEU	1713	25.914	-6.738	-9.249	1.00	27.03
ATOM	11546	CB	LEU	1713	25.833	-6.630	-10.772	1.00	30.07
ATOM	11547	CG	LEU	1713	26.489	-5.318	-11.427	1.00	33.56
ATOM	11548	GD1	LEU	1713	26.318	-5.532	-12.934	1.00	36.19
ATOM	11549	GD2	LEU	1713	25.851	-4.137	-13.868	1.00	36.32
ATOM	11550	C	LEU	1713	24.609	-5.396	-8.620	1.00	26.45
ATOM	11551	O	LEU	1713	23.723	-3.989	-8.338	1.00	23.98
ATOM	11552	N	VAL	1714	24.509	-4.789	-8.366	1.00	25.79
ATOM	11553	CA	VAL	1714	23.299	-4.410	-7.808	1.00	25.33
ATOM	11554	CB	VAL	1714	23.522	-3.443	-7.343	1.00	26.34
ATOM	11555	CG1	VAL	1714	22.245	-3.275	-6.730	1.00	25.71
ATOM	11556	CG2	VAL	1714	24.663	-2.378	-6.351	1.00	27.39
ATOM	11557	C	VAL	1714	22.215	-4.166	-8.686	1.00	24.43
ATOM	11558	O	VAL	1714	22.379	-3.413	-9.978	1.00	21.59
ATOM	11559	N	MET	1715	21.115	-5.146	-8.577	1.00	22.29
ATOM	11560	CA	MET	1715	20.026	-5.462	-9.521	1.00	20.64
ATOM	11561	CB	MET	1715	18.855	-6.559	-8.881	1.00	18.66
ATOM	11562	CG	MET	1715	18.253	-5.362	-7.697	1.00	16.93
ATOM	11563	SD	MET	1715	16.444	-5.323	-7.565	1.00	14.77
ATOM	11564	CE	MET	1715	15.937	-4.242	-8.684	1.00	11.34
ATOM	11565	C	MET	1715	14.519	-3.983	-10.101	1.00	19.32
ATOM	11566	O	MET	1715	15.062	-3.453	-11.213	1.00	21.61
ATOM	11567	N	HIS	1716	19.563	-2.890	-9.354	1.00	19.33
ATOM	11568	CA	HIS	1716	19.192	-1.800	-9.855	1.00	22.19
ATOM	11569	CB	HIS	1716	19.137	-0.596	-8.793	1.00	20.78
ATOM	11570	CG	HIS	1716	18.098	-0.432	-7.675	1.00	21.06
ATOM	11571	ND2	HIS	1716	18.126	-1.784	-6.623	1.00	18.32
ATOM	11572	ND1	HIS	1716	18.326	-2.399	-7.649	1.00	20.68
ATOM	11573	CE1	HIS	1716	16.116	-0.907	-6.707	1.00	18.23
ATOM	11574	NE2	HIS	1716	16.382	-1.750	-6.039	1.00	21.31
ATOM	11575	C	HIS	1716	23.035	-1.967	-11.018	1.00	27.57
ATOM	11576	O	HIS	1716	19.558	-0.273	-11.835	1.00	22.73
ATOM	11577	N	ASP	1717	21.287	-1.534	-11.097	1.00	23.70
ATOM	11578	CA	ASP	1717	22.145	-1.089	-12.199	1.00	26.09

ATOM	11579	CB	ASP	1717	23.615	-1.081	-11.765	1.00	27.32
ATOM	11580	CG	ASP	1717	23.881	-0.050	-10.872	1.00	27.23
ATOM	11581	OD1	ASP	1717	23.834	-1.040	-10.740	1.00	28.27
ATOM	11582	OD2	ASP	1717	24.662	-0.786	-9.748	1.00	21.57
ATOM	11583	C	ASP	1717	21.949	-2.064	-13.351	1.00	21.25
ATOM	11584	O	ASP	1717	21.622	-1.657	-14.522	1.00	26.75
ATOM	11585	N	ALA	1718	21.641	-2.115	-13.313	1.00	26.99
ATOM	11586	CA	ALA	1718	21.424	-4.149	-14.019	1.00	28.53
ATOM	11587	CB	ALA	1718	21.320	-5.116	-13.344	1.00	28.27
ATOM	11588	C	ALA	1718	20.196	-4.099	-14.896	1.00	28.41
ATOM	11589	O	ALA	1718	20.106	-4.644	-15.995	1.00	29.83
ATOM	11590	N	PHE	1719	19.258	-3.172	-14.422	1.00	30.10
ATOM	11591	CA	PHE	1719	18.053	-2.948	-15.187	1.00	29.35
ATOM	11592	CB	PHE	1719	16.797	-2.436	-14.458	1.00	26.02
ATOM	11593	CG	PHE	1719	16.863	-4.860	-14.004	1.00	31.07
ATOM	11594	CD1	PHE	1719	17.199	-5.057	-14.870	1.00	34.00
ATOM	11595	CD2	PHE	1719	16.106	-5.115	-12.708	1.00	31.37
ATOM	11596	CD3	PHE	1719	17.079	-5.187	-14.453	1.00	31.80
ATOM	11597	CE2	PHE	1719	16.174	-6.537	-13.278	1.00	34.12
ATOM	11598	C3	PHE	1719	17.616	-7.024	-13.155	1.00	31.15
ATOM	11599	C	PHE	1719	17.912	-1.484	-15.527	1.00	30.13
ATOM	11600	O	PHE	1719	16.827	-1.021	-15.915	1.00	29.25
ATOM	11601	N	GLY	1720	18.999	-0.738	-15.391	1.00	30.77
ATOM	11602	CA	GLY	1720	18.955	0.680	-15.699	1.00	19.12
ATOM	11603	C	GLY	1720	17.997	1.486	-14.835	1.00	19.76
ATOM	11604	O	GLY	1720	17.524	2.546	-15.218	1.00	30.17
ATOM	11605	N	ILE	1721	17.701	0.940	-13.838	1.00	21.96
ATOM	11606	CA	ILE	1721	16.806	1.721	-12.561	1.00	21.33
ATOM	11607	CB	ILE	1721	16.112	0.817	-11.577	1.00	21.06
ATOM	11608	CS2	ILE	1721	15.462	1.639	-10.606	1.00	21.06
ATOM	11609	CS1	ILE	1721	15.492	-0.392	-12.118	1.00	28.06
ATOM	11610	CD1	ILE	1721	15.126	-1.335	-11.061	1.00	18.34
ATOM	11611	C	ILE	1721	17.536	2.340	-12.168	1.00	15.41
ATOM	11612	O	ILE	1721	16.786	4.120	-12.005	1.00	15.13
ATOM	11613	N	THR	1722	18.792	2.166	-11.578	1.00	28.45
ATOM	11614	CA	THR	1722	18.867	3.771	-11.203	1.00	31.68
ATOM	11615	CB	THR	1722	20.185	3.137	-10.788	1.00	31.43
ATOM	11616	CS1	THR	1722	21.178	2.659	-11.816	1.00	30.73
ATOM	11617	CS2	THR	1722	20.834	2.127	-9.633	1.00	28.06
ATOM	11618	C	THR	1722	18.151	4.043	-12.243	1.00	14.82
ATOM	11619	O	THR	1722	20.121	4.621	-13.316	1.00	24.13
ATOM	11620	N	GLY	1723	18.711	6.133	-11.816	1.00	39.13
ATOM	11621	CA	GLY	1723	20.101	7.442	-12.627	1.00	44.16
ATOM	11622	C	GLY	1723	20.190	7.053	-14.116	1.00	48.17
ATOM	11623	O	GLY	1723	18.334	6.534	-14.307	1.00	51.07
ATOM	11624	N	GLY	1724	21.311	7.463	-14.303	1.00	50.16
ATOM	11625	CA	GLY	1724	21.090	7.136	-15.836	1.00	50.14
ATOM	11626	C	GLY	1724	21.413	8.641	-16.308	1.00	54.00
ATOM	11627	O	GLY	1724	21.677	5.677	-16.813	1.00	51.33
ATOM	11628	N	HIS	1725	21.338	7.375	-15.363	1.00	55.00
ATOM	11629	CA	HIS	1725	20.742	6.481	-15.419	1.00	56.14
ATOM	11630	CB	HIS	1725	20.648	8.098	-15.214	1.00	58.71
ATOM	11631	CG	HIS	1725	20.610	9.073	-16.312	1.00	61.30
ATOM	11632	CD2	HIS	1725	20.415	10.413	-16.384	1.00	63.32
ATOM	11633	ND1	HIS	1725	20.421	8.712	-17.631	1.00	61.27
ATOM	11634	CE1	HIS	1725	20.747	9.481	-18.416	1.00	67.11
ATOM	11635	NE2	HIS	1725	20.603	10.423	-17.651	1.00	61.16
ATOM	11636	C	HIS	1725	20.093	5.797	-14.419	1.00	51.66
ATOM	11637	O	HIS	1725	20.673	6.073	-13.349	1.00	51.69
ATOM	11638	N	ILE	1726	20.754	1.555	-14.713	1.00	51.12
ATOM	11639	CA	ILE	1726	20.944	3.125	-13.845	1.00	53.31
ATOM	11640	CB	ILE	1726	20.356	2.134	-14.342	1.00	53.76
ATOM	11641	CG2	ILE	1726	21.343	2.277	-14.290	1.00	53.32
ATOM	11642	CG1	ILE	1726	20.783	1.345	-15.832	1.00	54.93
ATOM	11643	CD1	ILE	1726	20.277	0.524	-16.365	1.00	53.43
ATOM	11644	C	ILE	1726	21.554	3.195	-13.821	1.00	51.83
ATOM	11645	O	ILE	1726	23.297	3.709	-14.665	1.00	51.34
ATOM	11646	N	PRO	1727	21.329	2.431	-12.825	1.00	46.63
ATOM	11647	CD	PRO	1727	21.283	1.702	-11.735	1.00	49.25
ATOM	11648	CA	PRO	1727	21.463	2.172	-12.715	1.00	13.30
ATOM	11649	CB	PRO	1727	21.516	1.313	-11.453	1.00	43.75
ATOM	11650	CG	PRO	1727	21.250	0.611	-11.416	1.00	49.22
ATOM	11651	C	PRO	1727	30.040	1.480	-13.953	1.00	46.66
ATOM	11652	O	PRO	1727	29.363	0.669	-14.589	1.00	46.75
ATOM	11653	N	LYS	1728	31.283	1.808	-14.290	1.00	44.70
ATOM	11654	CA	LYS	1728	31.940	1.230	-15.457	1.00	42.31
ATOM	11655	CB	LYS	1728	33.379	1.747	-15.571	1.00	45.34

ATOM	11656	CG	LYS	1728	33.500	3.136	-16.065	1.00	49.09
ATOM	11657	CD	LYS	1728	33.922	4.138	-15.974	1.00	51.69
ATOM	11658	CE	LYS	1728	33.050	5.614	-15.598	1.00	52.92
ATOM	11659	NZ	LYS	1728	32.499	6.622	-14.646	1.00	54.39
ATOM	11660	C	LYS	1728	31.954	-0.293	-15.478	1.00	38.59
ATOM	11661	O	LYS	1728	31.994	-0.996	-16.536	1.00	37.57
ATOM	11662	N	PHE	1729	31.920	-0.904	-14.292	1.00	34.69
ATOM	11663	CA	PHE	1729	31.947	-2.358	-14.201	1.00	30.76
ATOM	11664	CB	PHE	1729	32.582	-2.782	-12.870	1.00	31.47
ATOM	11665	CG	PHE	1729	31.882	-2.254	-11.657	1.00	31.03
ATOM	11666	CD	PHE	1729	30.666	-2.765	-11.232	1.00	31.72
ATOM	11667	DE	PHE	1729	32.445	-1.130	-10.952	1.00	31.83
ATOM	11668	EF1	PHE	1729	30.027	-2.265	-10.059	1.00	30.47
ATOM	11669	EF2	PHE	1729	31.816	-0.684	-9.800	1.00	32.00
ATOM	11670	EZ	PHE	1729	30.604	-1.222	-9.381	1.00	32.02
ATOM	11671	O	PHE	1729	30.571	-2.989	-14.346	1.00	37.40
ATOM	11672	O	PHE	1729	30.460	-4.215	-14.486	1.00	26.69
ATOM	11673	N	ALA	1730	29.528	-2.151	-14.221	1.00	26.96
ATOM	11674	CA	ALA	1730	28.165	-2.694	-14.435	1.00	24.28
ATOM	11675	CB	ALA	1730	27.243	-1.918	-13.486	1.00	25.85
ATOM	11676	C	ALA	1730	27.627	-2.611	-15.852	1.00	26.64
ATOM	11677	O	ALA	1730	28.155	-1.886	-16.694	1.00	27.21
ATOM	11678	N	LYS	1731	26.565	-3.362	-16.112	1.00	25.32
ATOM	11679	CA	LYS	1731	25.951	-3.348	-17.427	1.00	26.32
ATOM	11680	CB	LYS	1731	26.419	-4.550	-18.141	1.00	27.13
ATOM	11681	CG	LYS	1731	25.728	-4.683	-19.587	1.00	29.75
ATOM	11682	CD	LYS	1731	26.304	-5.843	-20.115	1.00	31.89
ATOM	11683	CE	LYS	1731	25.551	-6.672	-21.667	1.00	32.08
ATOM	11684	NE	LYS	1731	26.137	-7.215	-22.427	1.00	34.11
ATOM	11685	C	LYS	1731	24.431	-3.361	-17.307	1.00	25.48
ATOM	11686	O	LYS	1731	23.868	-4.094	-16.498	1.00	24.67
ATOM	11687	N	ASN	1732	23.779	-2.534	-18.113	1.00	24.60
ATOM	11688	CA	ASN	1732	22.329	-2.450	-18.112	1.00	24.54
ATOM	11689	CB	ASN	1732	21.887	-1.055	-18.565	1.00	23.33
ATOM	11690	CG	ASN	1732	20.373	-0.911	-18.140	1.00	21.61
ATOM	11691	CD	ASN	1732	19.637	-1.889	-18.165	1.00	19.03
ATOM	11692	DE2	ASN	1732	19.407	0.326	-18.804	1.00	23.80
ATOM	11693	ASN	1732	21.877	-3.508	-19.068	1.00	25.76	
ATOM	11694	ASN	1732	21.773	-3.102	-20.183	1.00	25.61	
ATOM	11695	N	PHE	1733	21.344	-4.637	-18.510	1.00	25.00
ATOM	11696	CA	PHE	1733	20.711	-5.119	-19.157	1.00	25.28
ATOM	11697	CB	PHE	1733	20.781	-7.049	-18.862	1.00	26.19
ATOM	11698	CG	PHE	1733	22.077	-7.134	-18.195	1.00	25.90
ATOM	11699	CD	PHE	1733	22.077	-7.108	-17.195	1.00	26.87
ATOM	11700	DE1	PHE	1733	22.021	-8.353	-19.137	1.00	26.66
ATOM	11701	OE1	PHE	1733	24.191	-7.110	-16.905	1.00	25.54
ATOM	11702	OE2	PHE	1733	24.134	-8.781	-19.009	1.00	26.56
ATOM	11703	EZ	PHE	1733	24.026	-8.135	-17.195	1.00	27.21
ATOM	11704	O	PHE	1733	19.187	-5.471	-19.102	1.00	26.56
ATOM	11705	O	PHE	1733	18.907	-6.133	-20.126	1.00	32.93
ATOM	11706	N	LEU	1734	18.696	-4.521	-19.178	1.00	27.59
ATOM	11707	CA	LEU	1734	17.437	-4.112	-19.569	1.00	29.76
ATOM	11708	CB	LEU	1734	16.400	-3.431	-18.441	1.00	28.65
ATOM	11709	CG	LEU	1734	15.196	-2.922	-18.639	1.00	27.33
ATOM	11710	CD	LEU	1734	14.348	-4.117	-19.194	1.00	29.61
ATOM	11711	DE2	LEU	1734	14.666	-2.195	-17.135	1.00	33.99
ATOM	11712	O	LEU	1734	17.166	-3.783	-20.137	1.00	32.37
ATOM	11713	O	LEU	1734	16.613	-3.718	-21.194	1.00	31.11
ATOM	11714	N	ALA	1735	18.922	-2.170	-20.155	1.00	36.48
ATOM	11715	CA	ALA	1735	18.168	-1.278	-22.111	1.00	42.24
ATOM	11716	CB	ALA	1735	19.139	-0.470	-21.639	1.00	42.64
ATOM	11717	C	ALA	1735	18.109	-2.136	-23.137	1.00	46.05
ATOM	11718	O	ALA	1735	17.139	-1.601	-24.137	1.00	46.73
ATOM	11719	O	GLU	1736	18.737	-3.117	-23.139	1.00	49.05
ATOM	11720	CA	GLU	1736	18.623	-4.125	-24.174	1.00	51.86
ATOM	11721	CB	GLU	1736	19.548	-5.151	-23.913	1.00	53.56
ATOM	11722	CG	GLU	1736	20.314	-5.411	-23.172	1.00	55.23
ATOM	11723	CD	GLU	1736	22.018	-4.944	-23.173	1.00	57.23
ATOM	11724	OE1	GLU	1736	21.431	-3.866	-21.595	1.00	58.63
ATOM	11725	OE2	GLU	1736	23.946	-5.157	-23.969	1.00	57.91
ATOM	11726	O	GLU	1736	17.546	-4.435	-24.986	1.00	52.19
ATOM	11727	O	GLU	1736	17.355	-4.151	-26.135	1.00	53.01
ATOM	11728	N	THR	1737	16.594	-4.876	-24.134	1.00	51.41
ATOM	11729	CA	THR	1737	15.228	-5.187	-24.551	1.00	49.15
ATOM	11730	CB	THR	1737	14.969	-6.699	-24.442	1.00	50.52
ATOM	11731	OS1	THR	1737	13.658	-7.002	-24.935	1.00	54.07
ATOM	11732	OS2	THR	1737	15.082	-7.146	-22.993	1.00	51.48

ATOM	11733	C	THP	1737	14.302	-4.449	-23.665	1.00	47.27
ATOM	11734	C	THP	1737	14.471	-3.781	-23.549	1.00	47.44
ATOM	11735	N	GLY	1738	15.004	-5.015	-23.557	1.00	47.24
ATOM	11736	CA	GLY	1738	11.969	-4.697	-22.747	1.00	36.72
ATOM	11737	C	GLY	1738	11.296	-5.412	-21.841	1.00	37.77
ATOM	11738	O	GLY	1738	16.107	-5.314	-21.570	1.00	31.85
ATOM	11739	N	ASP	1739	12.676	-6.395	-21.496	1.00	31.61
ATOM	11740	CA	ASP	1739	11.587	-7.461	-20.545	1.00	29.13
ATOM	11741	CB	ASP	1739	11.478	-8.744	-21.358	1.00	32.58
ATOM	11742	CG	ASP	1739	16.628	-9.832	-20.669	1.00	35.23
ATOM	11743	OD1	ASP	1739	11.167	-10.195	-19.463	1.00	35.58
ATOM	11744	OD2	ASP	1739	9.667	-15.332	-21.147	1.00	29.35
ATOM	11745	C	ASP	1739	12.677	-7.688	-19.425	1.00	26.10
ATOM	11746	O	ASP	1739	12.748	-8.092	-19.691	1.00	24.19
ATOM	11747	N	ILE	1740	12.233	-7.417	-18.184	1.00	29.62
ATOM	11748	CA	ILE	1740	12.111	-7.596	-17.050	1.00	27.38
ATOM	11749	CB	ILE	1740	17.453	-7.101	-15.740	1.00	20.26
ATOM	11750	CG2	ILE	1740	13.307	-7.516	-14.571	1.00	21.30
ATOM	11751	CG1	ILE	1740	15.309	-5.584	-15.794	1.00	20.28
ATOM	11752	CD1	ILE	1740	11.517	-4.983	-14.637	1.00	21.21
ATOM	11753	C	ILE	1740	12.543	-9.649	-16.896	1.00	19.53
ATOM	11754	O	ILE	1740	14.724	-9.337	-16.663	1.00	20.00
ATOM	11755	N	ARG	1741	12.610	-9.971	-17.030	1.00	18.98
ATOM	11756	CA	ARG	1741	12.937	-11.384	-16.911	1.00	19.96
ATOM	11757	CB	ARG	1741	11.668	-12.236	-16.974	1.00	19.87
ATOM	11758	CG	ARG	1741	10.819	-12.142	-15.696	1.00	21.32
ATOM	11759	CD	ARG	1741	9.513	-12.853	-15.810	1.00	23.47
ATOM	11760	NE	ARG	1741	8.776	-12.794	-14.549	1.00	25.86
ATOM	11761	CZ	ARG	1741	8.293	-11.676	-14.013	1.00	27.35
ATOM	11762	NH1	ARG	1741	8.461	-10.514	-14.627	1.00	29.85
ATOM	11763	NH2	ARG	1741	7.651	-11.716	-12.853	1.00	28.28
ATOM	11764	C	ARG	1741	13.937	-11.809	-17.984	1.00	20.67
ATOM	11765	O	ARG	1741	14.898	-12.546	-17.702	1.00	20.44
ATOM	11766	N	ALA	1742	13.733	-11.333	-19.209	1.00	18.88
ATOM	11767	CA	ALA	1742	14.637	-11.663	-20.299	1.00	19.67
ATOM	11768	CB	ALA	1742	14.106	-11.119	-21.617	1.00	17.58
ATOM	11769	C	ALA	1742	17.313	-11.057	-20.682	1.00	18.75
ATOM	11770	O	ALA	1742	17.019	-11.601	-20.381	1.00	21.64
ATOM	11771	N	ALA	1743	16.011	-9.927	-19.368	1.00	19.15
ATOM	11772	CA	ALA	1743	17.215	-9.244	-18.946	1.00	18.94
ATOM	11773	CB	ALA	1743	16.934	-7.786	-18.314	1.00	19.04
ATOM	11774	O	ALA	1743	18.636	-10.69	-17.812	1.00	19.62
ATOM	11775	C	ALA	1743	18.237	-10.194	-17.964	1.00	19.31
ATOM	11776	N	VAL	1744	17.263	-10.706	-17.010	1.00	20.08
ATOM	11777	CA	VAL	1744	17.867	-11.567	-15.942	1.00	19.96
ATOM	11778	CB	VAL	1744	17.797	-12.663	-14.967	1.00	21.45
ATOM	11779	CG1	VAL	1744	17.314	-13.147	-14.099	1.00	19.83
ATOM	11780	CG2	VAL	1744	16.429	-10.813	-14.071	1.00	19.35
ATOM	11781	C	VAL	1744	18.485	-12.783	-16.659	1.00	21.05
ATOM	11782	O	VAL	1744	18.601	-13.197	-16.326	1.00	21.17
ATOM	11783	N	ARG	1745	17.763	-13.356	-17.612	1.00	21.99
ATOM	11784	CA	ARG	1745	18.265	-14.515	-18.333	1.00	24.40
ATOM	11785	CB	ARG	1745	17.191	-15.064	-19.275	1.00	25.74
ATOM	11786	CG	ARG	1745	15.991	-15.664	-18.561	1.00	26.65
ATOM	11787	CD	ARG	1745	15.141	-16.464	-19.527	1.00	28.73
ATOM	11788	NE	ARG	1745	14.575	-15.634	-20.580	1.00	31.69
ATOM	11789	CZ	ARG	1745	13.451	-14.324	-20.456	1.00	31.26
ATOM	11790	NH1	ARG	1745	12.767	-14.557	-19.320	1.00	31.93
ATOM	11791	NH2	ARG	1745	13.024	-14.183	-21.470	1.00	31.37
ATOM	11792	C	ARG	1745	19.523	-14.161	-19.126	1.00	24.45
ATOM	11793	O	ARG	1745	20.429	-14.991	-19.283	1.00	27.74
ATOM	11794	N	GLN	1746	19.593	-12.925	-19.612	1.00	24.53
ATOM	11795	CA	GLN	1746	20.753	-12.430	-20.389	1.00	24.66
ATOM	11796	CB	GLN	1746	20.501	-11.120	-21.022	1.00	24.98
ATOM	11797	CG	GLN	1746	21.506	-10.729	-22.100	1.00	26.46
ATOM	11798	CD	GLN	1746	21.243	-9.333	-22.651	1.00	28.72
ATOM	11799	OE1	GLN	1746	20.132	-9.013	-23.066	1.00	27.11
ATOM	11800	NE2	GLN	1746	22.282	-8.506	-22.662	1.00	30.62
ATOM	11801	C	GLN	1746	21.984	-12.410	-19.491	1.00	24.23
ATOM	11802	O	GLN	1746	23.671	-12.359	-19.860	1.00	23.92
ATOM	11803	N	TRP	1747	21.800	-11.331	-18.311	1.00	23.27
ATOM	11804	CA	TRP	1747	22.883	-11.633	-17.352	1.00	22.19
ATOM	11805	CB	TRP	1747	22.363	-10.943	-16.114	1.00	21.72
ATOM	11806	CG	TRP	1747	23.266	-10.978	-14.991	1.00	20.80
ATOM	11807	CD1	TRP	1747	24.581	-10.525	-14.969	1.00	20.83
ATOM	11808	CE1	TRP	1747	25.406	-10.540	-13.844	1.00	21.19
ATOM	11809	CD2	TRP	1747	22.794	-11.446	-13.677	1.00	20.71

ATOM	11-10	CE1	TYR	1747	23.610	-11.483	-12.548	1.00	21.81
ATOM	11-11	CZ	TYR	1747	24.913	-11.011	-12.640	1.00	22.88
ATOM	11-12	OH	TYR	1747	25.730	-11.044	-11.520	1.00	22.08
ATOM	11-13	C	TYR	1747	23.417	-13.079	-16.987	1.00	21.70
ATOM	11-14	C	TYR	1747	24.625	-13.202	-16.962	1.00	21.41
ATOM	11-15	N	MET	1748	22.936	-14.019	-16.662	1.00	19.86
ATOM	11-16	CA	MET	1748	22.915	-15.170	-16.317	1.00	22.83
ATOM	11-17	CB	MET	1748	21.690	-16.205	-15.994	1.00	22.86
ATOM	11-18	CG	MET	1748	20.813	-15.673	-14.824	1.00	24.78
ATOM	11-19	CD	MET	1748	19.282	-16.477	-14.671	1.00	29.17
ATOM	11-20	CE	MET	1748	19.786	-18.014	-13.979	1.00	26.43
ATOM	11-21	C	MET	1748	23.682	-16.047	-15.412	1.00	23.62
ATOM	11-22	O	MET	1748	24.653	-16.586	-17.212	1.00	21.81
ATOM	11-23	H	ALA	1749	23.241	-15.390	-16.610	1.00	22.35
ATOM	11-24	CA	ALA	1749	21.906	-16.373	-18.838	1.00	21.87
ATOM	11-25	CB	ALA	1749	21.996	-16.218	-21.041	1.00	22.11
ATOM	11-26	C	ALA	1749	25.268	-15.786	-20.148	1.00	23.89
ATOM	11-27	O	ALA	1749	26.211	-16.489	-20.461	1.00	23.14
ATOM	11-28	H	GLU	1750	21.396	-14.446	-20.653	1.00	21.41
ATOM	11-29	CA	GLU	1750	20.671	-12.808	-20.352	1.00	21.76
ATOM	11-30	CB	GLU	1750	20.449	-12.330	-20.118	1.00	23.49
ATOM	11-31	CG	GLU	1750	21.503	-11.917	-21.013	1.00	23.73
ATOM	11-32	CD	GLU	1750	25.685	-10.499	-22.093	1.00	25.79
ATOM	11-33	OE1	GLU	1750	25.438	-9.746	-21.442	1.00	25.87
ATOM	11-34	OE2	GLU	1750	25.056	-10.130	-23.113	1.00	28.21
ATOM	11-35	C	GLU	1750	27.749	-14.014	-19.307	1.00	23.50
ATOM	11-36	O	GLU	1750	28.947	-14.115	-19.617	1.00	21.76
ATOM	11-37	N	VAL	1751	22.341	-14.289	-18.094	1.00	23.02
ATOM	11-38	CA	VAL	1751	28.317	-14.588	-17.087	1.00	23.63
ATOM	11-39	CB	VAL	1751	27.674	-14.482	-15.363	1.00	23.59
ATOM	11-40	CG1	VAL	1751	28.597	-15.124	-14.163	1.00	22.90
ATOM	11-41	CG2	VAL	1751	27.431	-15.019	-15.014	1.00	22.54
ATOM	11-42	C	VAL	1751	28.893	-11.917	-17.123	1.00	24.14
ATOM	11-43	O	VAL	1751	38.108	-16.164	-17.100	1.00	25.38
ATOM	11-44	N	LEU	1752	24.028	-16.831	-17.089	1.00	24.05
ATOM	11-45	CA	LEU	1752	21.455	-18.284	-17.134	1.00	26.81
ATOM	11-46	CB	LEU	1752	22.241	-19.136	-17.982	1.00	28.09
ATOM	11-47	CG	LEU	1752	22.611	-20.681	-18.111	1.00	30.83
ATOM	11-48	CD	LEU	1752	28.495	-21.519	-17.104	1.00	39.97
ATOM	11-49	OE1	LEU	1752	28.551	-22.733	-18.179	1.00	32.52
ATOM	11-50	OE2	LEU	1752	11.439	-21.133	-17.118	1.00	31.48
ATOM	11-51	C	LEU	1752	18.284	-18.387	-18.113	1.00	28.55
ATOM	11-52	O	LEU	1752	18.127	-19.111	-18.164	1.00	29.38
ATOM	11-53	N	LEU	1753	22.914	-17.648	-21.146	1.00	28.43
ATOM	11-54	CA	LEU	1753	28.640	-17.701	-21.413	1.00	29.68
ATOM	11-55	CB	LEU	1753	28.811	-17.013	-23.111	1.00	39.24
ATOM	11-56	CG	LEU	1753	22.157	-17.885	-21.766	1.00	36.50
ATOM	11-57	C	LEU	1753	18.288	-17.013	-21.183	1.00	35.05
ATOM	11-58	O	LEU	1753	11.911	-17.388	-21.181	1.00	29.58
ATOM	11-59	N	GLY	1754	21.017	-15.011	-21.304	1.00	28.51
ATOM	11-60	CA	GLY	1754	21.276	-15.289	-21.113	1.00	27.56
ATOM	11-61	C	GLY	1754	21.223	-13.811	-21.188	1.00	26.65
ATOM	11-62	O	GLY	1754	28.116	-13.113	-21.101	1.00	26.54
ATOM	11-63	N	VAL	1755	11.108	-13.644	-21.186	1.00	23.81
ATOM	11-64	CA	VAL	1755	20.388	-12.810	-21.102	1.00	26.68
ATOM	11-65	CB	VAL	1755	20.643	-12.411	-23.189	1.00	26.95
ATOM	11-66	CG1	VAL	1755	19.113	-11.186	-21.130	1.00	29.75
ATOM	11-67	CG2	VAL	1755	18.686	-13.518	-23.181	1.00	31.72
ATOM	11-68	C	VAL	1755	19.317	-11.285	-21.186	1.00	28.82
ATOM	11-69	O	VAL	1755	31.157	-19.013	-21.136	1.00	25.55
ATOM	11-70	N	TYR	1756	20.346	-11.143	-20.068	1.00	25.63
ATOM	11-71	CA	TYR	1756	20.233	-10.455	-19.131	1.00	25.13
ATOM	11-72	CB	TYR	1756	28.764	-10.180	-18.107	1.00	25.56
ATOM	11-73	CG	TYR	1756	18.613	-9.263	-17.657	1.00	24.46
ATOM	11-74	CD1	TYR	1756	28.367	-9.774	-17.174	1.00	24.16
ATOM	11-75	CE1	TYR	1756	18.852	-6.745	-16.093	1.00	23.87
ATOM	11-76	CE2	TYR	1756	18.336	-9.388	-16.327	1.00	24.07
ATOM	11-77	CE3	TYR	1756	18.319	-3.416	-15.138	1.00	24.15
ATOM	11-78	CZ	TYR	1756	18.533	-7.086	-15.679	1.00	24.77
ATOM	11-79	OH	TYR	1756	28.632	-6.112	-14.596	1.00	24.55
ATOM	11-80	C	TYR	1756	19.931	-10.917	-17.761	1.00	25.03
ATOM	11-81	O	TYR	1756	30.743	-12.019	-17.329	1.00	22.60
ATOM	11-82	N	PRO	1757	31.748	-10.086	-17.145	1.00	27.09
ATOM	11-83	CA	PRO	1757	32.331	-10.283	-15.307	1.00	26.60
ATOM	11-84	CB	PRO	1757	32.016	-8.688	-17.622	1.00	28.05
ATOM	11-85	CG	PRO	1757	32.530	-7.945	-16.379	1.00	29.31
ATOM	11-86	CH	PRO	1757	33.281	-9.082	-15.679	1.00	29.30

ATOM	11887	C	PRO	1757	33.641	-8.664	-18.761	1.00	30.41
ATOM	11888	O	PRO	1757	33.960	-8.513	-18.855	1.00	30.11
ATOM	11889	N	GLY	1758	33.911	-8.663	-19.617	1.00	31.34
ATOM	11890	CA	GLY	1758	33.839	-8.537	-20.735	1.00	31.13
ATOM	11891	C	GLY	1758	33.007	-8.657	-20.139	1.00	31.47
ATOM	11892	O	GLY	1758	33.072	-8.182	-19.107	1.00	31.45
ATOM	11893	N	GLU	1759	33.972	-8.417	-21.165	1.00	34.13
ATOM	11894	CA	GLU	1759	37.088	-8.589	-20.966	1.00	36.09
ATOM	11895	CB	GLU	1759	38.020	-8.590	-22.179	1.00	37.61
ATOM	11896	CG	GLU	1759	38.210	-8.611	-21.932	1.00	38.13
ATOM	11897	CD	GLU	1759	40.075	-8.093	-20.765	1.00	40.84
ATOM	11898	OE1	GLU	1759	40.868	-8.284	-20.131	1.00	43.08
ATOM	11899	OE2	GLU	1759	38.638	-8.278	-20.390	1.00	40.13
ATOM	11900	C	GLU	1759	38.885	-4.181	-20.950	1.00	38.19
ATOM	11901	O	GLU	1759	37.291	-3.580	-19.693	1.00	36.76
ATOM	11902	N	LEU	1760	33.594	-3.683	-21.162	1.00	37.77
ATOM	11903	CA	LEU	1760	35.095	-3.347	-20.867	1.00	38.57
ATOM	11904	CB	LEU	1760	33.910	-1.980	-21.809	1.00	41.14
ATOM	11905	CG	LEU	1760	34.018	-2.845	-23.180	1.00	43.73
ATOM	11906	CD	LEU	1760	33.668	-4.089	-23.154	1.00	44.67
ATOM	11907	OE1	LEU	1760	32.558	-4.404	-22.730	1.00	45.33
ATOM	11908	OE2	LEU	1760	34.508	-4.915	-23.156	1.00	45.49
ATOM	11909	C	LEU	1760	34.583	-2.215	-19.426	1.00	37.41
ATOM	11910	O	LEU	1760	34.473	-1.162	-18.875	1.00	37.27
ATOM	11911	N	HIS	1761	34.306	-3.411	-18.831	1.00	36.62
ATOM	11912	CA	HIS	1761	33.809	-3.447	-17.460	1.00	36.41
ATOM	11913	CB	HIS	1761	32.650	-4.445	-17.513	1.00	34.32
ATOM	11914	CG	HIS	1761	31.541	-4.218	-18.340	1.00	33.22
ATOM	11915	CD2	HIS	1761	31.033	-4.913	-19.348	1.00	31.29
ATOM	11916	ND1	HIS	1761	30.804	-5.013	-18.579	1.00	32.96
ATOM	11917	CE1	HIS	1761	29.890	-3.101	-19.261	1.00	32.22
ATOM	11918	NE2	HIS	1761	30.030	-4.335	-19.911	1.00	32.69
ATOM	11919	C	HIS	1761	34.900	-3.941	-16.504	1.00	37.42
ATOM	11920	O	HIS	1761	34.610	-4.310	-15.269	1.00	38.41
ATOM	11921	N	SER	1762	38.118	-3.898	-16.960	1.00	37.25
ATOM	11922	CA	SER	1762	37.379	-4.318	-16.134	1.00	37.81
ATOM	11923	CB	SER	1762	37.960	-5.517	-16.819	1.00	37.81
ATOM	11924	CG	SER	1762	37.021	-6.539	-17.141	1.00	36.89
ATOM	11925	C	SER	1762	38.309	-1.215	-13.884	1.00	38.61
ATOM	11926	O	SER	1762	38.410	-2.117	-16.641	1.00	37.88
ATOM	11927	N	THR	1763	39.069	-3.482	-14.100	1.00	40.54
ATOM	11928	CA	THR	1763	40.111	-2.441	-14.858	1.00	43.35
ATOM	11929	CB	THR	1763	38.979	-1.897	-11.137	1.00	44.18
ATOM	11930	CG	THR	1763	38.661	-1.112	-12.840	1.00	45.64
ATOM	11931	CD1	THR	1763	39.477	-1.712	-12.481	1.00	46.71
ATOM	11932	CD2	THR	1763	38.648	-0.139	-13.114	1.00	46.22
ATOM	11933	CE1	THR	1763	38.290	-1.118	-12.705	1.00	46.58
ATOM	11934	CE2	THR	1763	37.477	-1.034	-12.878	1.00	46.13
ATOM	11935	CZ	THR	1763	38.129	-0.115	-11.982	1.00	46.49
ATOM	11936	C	THR	1763	41.471	-3.110	-14.567	1.00	45.31
ATOM	11937	O	THR	1763	41.568	-4.375	-14.141	1.00	45.13
ATOM	11938	N	TRP	1764	43.591	-2.118	-14.463	1.00	47.11
ATOM	11939	CA	TRP	1764	43.890	-2.114	-14.551	1.00	48.01
ATOM	11940	CB	TRP	1764	44.368	-2.394	-16.107	1.00	48.11
ATOM	11941	CG	TRP	1764	43.713	-3.317	-16.853	1.00	47.30
ATOM	11942	CH1	TRP	1764	41.801	-3.342	-17.588	1.00	47.14
ATOM	11943	ND1	TRP	1764	43.933	-3.100	-16.581	1.00	48.69
ATOM	11944	CE1	TRP	1764	43.218	-3.117	-17.157	1.00	47.18
ATOM	11945	NE2	TRP	1764	42.541	-3.018	-18.190	1.00	46.67
ATOM	11946	C	TRP	1764	44.848	-3.389	-15.693	1.00	49.73
ATOM	11947	O	TRP	1764	45.531	-2.589	-12.839	1.00	50.49
ATOM	11948	OX1	TRP	1764	44.896	-0.357	-13.887	1.00	51.77
ATOM	11949	C1	EPL	1765	37.748	-4.239	-4.469	1.00	37.13
ATOM	11950	C2	EPL	1765	37.949	-5.559	-3.746	1.00	36.67
ATOM	11951	C3	EPL	1765	37.194	-6.630	-4.447	1.00	36.77
ATOM	11952	C4	EPL	1765	39.442	-6.368	-3.831	1.00	38.31
ATOM	11953	O1	EPL	1765	40.255	-4.385	-3.190	1.00	40.50
ATOM	11954	C5	EPL	1765	37.511	-5.432	-2.165	1.00	36.08
ATOM	11955	C6	EPL	1765	38.306	-6.650	-1.172	1.00	36.16
ATOM	11956	CG	EPL	1765	36.106	-5.137	-1.185	1.00	33.38
ATOM	11957	O3	EPL	1765	35.273	-4.814	-2.736	1.00	35.07
ATOM	11958	O4	EPL	1765	35.770	-4.927	-0.190	1.00	32.90
ATOM	11959	CB	MET	1801	10.432	-42.440	39.164	1.00	62.99
ATOM	11960	CG	MET	1801	11.787	-41.787	39.475	1.00	64.83
ATOM	11961	SD	MET	1801	12.950	-42.846	40.838	1.00	67.79
ATOM	11962	CE	MET	1801	12.685	-42.311	42.031	1.00	67.34
ATOM	11963	C	MET	1801	8.891	-40.780	40.307	1.00	59.13

ATOM	11964		MET	1801	37.710	-40.737	40.655	1.00	59.38
ATOM	11965	N	MET	1801	37.705	-40.456	37.968	1.00	61.5
ATOM	11966	CA	MET	1801	37.294	-41.449	38.998	1.00	60.88
ATOM	11967	N	LYS	1802	38.874	-40.256	41.033	1.00	56.77
ATOM	11968	CA	LYS	1802	38.569	-39.612	41.311	1.00	53.19
ATOM	11969	CB	LYS	1802	38.861	-40.614	41.447	1.00	54.61
ATOM	11970	CG	LYS	1802	38.848	-41.241	41.283	1.00	55.72
ATOM	11971	CD	LYS	1802	38.557	-41.813	41.598	1.00	56.71
ATOM	11972	CE	LYS	1802	38.368	-41.678	41.698	1.00	56.84
ATOM	11973	NZ	LYS	1802	38.851	-41.687	41.436	1.00	55.32
ATOM	11974	C	LYS	1802	10.337	-38.361	41.596	1.00	49.88
ATOM	11975	N	LYS	1802	10.760	-38.088	41.759	1.00	50.44
ATOM	11976	N	PRO	1803	10.811	-38.590	41.560	1.00	45.52
ATOM	11977	CD	PRO	1803	11.320	-38.125	41.816	1.00	44.97
ATOM	11978	CA	PRO	1803	10.530	-37.761	40.132	1.00	41.04
ATOM	11979	CB	PRO	1803	10.375	-38.554	39.651	1.00	42.80
ATOM	11980	CG	PRO	1803	11.465	-38.630	40.414	1.00	42.66
ATOM	11981	C	PRO	1803	11.574	-38.481	39.314	1.00	38.65
ATOM	11982	N	PRO	1803	12.351	-38.891	40.056	1.00	34.80
ATOM	11983	N	THR	1804	11.621	-38.311	38.684	1.00	30.62
ATOM	11984	CA	THR	1804	12.666	-38.115	37.283	1.00	26.97
ATOM	11985	CB	THR	1804	12.172	-38.455	38.853	1.00	24.88
ATOM	11986	CG1	THR	1804	11.046	-40.377	38.962	1.00	24.56
ATOM	11987	CG2	THR	1804	13.376	-40.073	38.621	1.00	27.11
ATOM	11988	C	THR	1804	13.880	-38.231	37.215	1.00	24.43
ATOM	11989	O	THR	1804	13.752	-37.016	36.888	1.00	21.49
ATOM	11990	N	THR	1805	15.055	-38.769	37.524	1.00	23.84
ATOM	11991	CA	THR	1805	16.378	-37.975	37.516	1.00	23.31
ATOM	11992	CB	THR	1805	16.829	-37.860	38.940	1.00	23.39
ATOM	11993	CG1	THR	1805	17.286	-38.081	38.423	1.00	25.31
ATOM	11994	CG2	THR	1805	15.756	-37.167	38.866	1.00	23.36
ATOM	11995	C	THR	1805	17.379	-38.614	36.882	1.00	21.44
ATOM	11996	O	THR	1805	17.268	-37.761	36.147	1.00	19.91
ATOM	11997	N	ILE	1806	18.153	-38.863	36.471	1.00	19.31
ATOM	11998	CA	ILE	1806	19.574	-38.336	36.706	1.00	20.38
ATOM	11999	CB	ILE	1806	20.596	-38.139	38.599	1.00	22.61
ATOM	12000	CG2	ILE	1806	21.806	-38.344	34.689	1.00	23.36
ATOM	12001	CG1	ILE	1806	20.131	-40.311	38.016	1.00	23.31
ATOM	12002	CD1	ILE	1806	21.078	-40.458	38.129	1.00	27.67
ATOM	12003	C	ILE	1806	20.108	-40.811	36.415	1.00	19.38
ATOM	12004	O	ILE	1806	21.611	-41.131	38.780	1.00	17.13
ATOM	12005	N	SER	1807	19.308	-40.671	38.336	1.00	19.33
ATOM	12006	CA	SER	1807	20.351	-40.388	38.365	1.00	20.30
ATOM	12007	CB	SER	1807	20.301	-40.308	40.060	1.00	23.31
ATOM	12008	OG	SER	1807	20.372	-39.418	40.459	1.00	29.08
ATOM	12009	C	SER	1807	19.777	-40.330	38.062	1.00	19.39
ATOM	12010	O	SER	1807	20.408	-41.118	38.010	1.00	18.78
ATOM	12011	N	LEU	1808	18.191	-41.301	38.741	1.00	19.38
ATOM	12012	CA	LEU	1808	17.733	-41.170	38.317	1.00	19.70
ATOM	12013	CB	LEU	1808	18.348	-41.333	38.264	1.00	21.37
ATOM	12014	CG	LEU	1808	15.135	-41.131	38.321	1.00	23.34
ATOM	12015	CD1	LEU	1808	15.886	-41.158	38.135	1.00	27.41
ATOM	12016	CD2	LEU	1808	15.658	-41.137	38.248	1.00	23.35
ATOM	12017	C	LEU	1808	18.118	-41.118	38.384	1.00	19.37
ATOM	12018	O	LEU	1808	18.194	-41.333	38.797	1.00	19.37
ATOM	12019	N	LEU	1809	18.638	-41.333	38.347	1.00	19.37
ATOM	12020	CA	LEU	1809	19.006	-41.333	38.340	1.00	19.37
ATOM	12021	CB	LEU	1809	19.110	-41.333	38.772	1.00	19.38
ATOM	12022	CG	LEU	1809	17.311	-41.333	38.777	1.00	19.36
ATOM	12023	CD1	LEU	1809	18.026	-41.333	38.350	1.00	19.38
ATOM	12024	CD2	LEU	1809	16.672	-41.333	38.202	1.00	19.36
ATOM	12025	C	LEU	1809	20.363	-41.333	38.900	1.00	19.36
ATOM	12026	O	LEU	1809	20.843	-41.333	38.267	1.00	19.38
ATOM	12027	N	GLN	1810	21.207	-41.333	38.752	1.00	19.38
ATOM	12028	CA	GLN	1810	22.526	-41.333	38.978	1.00	19.34
ATOM	12029	CB	GLN	1810	23.325	-41.333	38.957	1.00	21.32
ATOM	12030	CG	GLN	1810	24.818	-41.333	38.021	1.00	21.39
ATOM	12031	CD	GLN	1810	25.527	-41.333	38.676	1.00	21.35
ATOM	12032	OE1	GLN	1810	25.549	-41.333	38.869	1.00	25.62
ATOM	12033	NE2	GLN	1810	26.100	-41.333	38.430	1.00	25.30
ATOM	12034	C	GLN	1810	22.345	-41.333	38.520	1.00	20.60
ATOM	12035	O	GLN	1810	23.081	-41.333	38.142	1.00	19.37
ATOM	12036	N	LYS	1811	21.356	-41.333	38.391	1.00	20.73
ATOM	12037	CA	LYS	1811	21.088	-41.333	38.952	1.00	22.34
ATOM	12038	CB	LYS	1811	19.960	-41.333	37.989	1.00	25.60
ATOM	12039	CG	LYS	1811	19.688	-41.333	38.647	1.00	30.12
ATOM	12040	CD	LYS	1811	18.259	-42.325	39.172	1.00	34.37

ATOM	12041	OE	LYS	1811	17.369	-47.428	47.368	1.00	37.00
ATOM	12042	NZ	LYS	1811	16.571	-47.646	46.868	1.00	38.47
ATOM	12043	C	LYS	1811	20.427	-47.800	46.822	1.00	32.37
ATOM	12044	S	LYS	1811	21.136	-48.065	46.555	1.00	32.10
ATOM	12045	N	TYR	1812	19.863	-47.427	44.948	1.00	26.19
ATOM	12046	CA	TYR	1812	19.328	-48.108	44.806	1.00	19.41
ATOM	12047	CB	TYR	1812	18.394	-47.151	44.929	1.00	30.89
ATOM	12048	CG	TYR	1812	17.008	-47.643	44.529	1.00	27.69
ATOM	12049	CD1	TYR	1812	16.190	-46.161	44.941	1.00	31.91
ATOM	12050	OE1	TYR	1812	14.810	-46.911	44.456	1.00	38.13
ATOM	12051	CD2	TYR	1812	16.590	-47.769	44.650	1.00	25.69
ATOM	12052	OE2	TYR	1812	15.327	-47.613	44.183	1.00	26.84
ATOM	12053	CZ	TYR	1812	14.424	-46.743	44.568	1.00	27.89
ATOM	12054	OH	TYR	1812	14.117	-46.626	45.067	1.00	31.55
ATOM	12055	C	TYR	1812	20.438	-48.620	40.860	1.00	18.45
ATOM	12056	O	TYR	1812	20.478	-49.764	41.508	1.00	14.51
ATOM	12057	N	LYS	1812	21.436	-47.763	40.739	1.00	18.27
ATOM	12058	CA	LYS	1812	21.611	-48.177	41.650	1.00	18.58
ATOM	12059	CB	LYS	1812	23.577	-46.993	41.679	1.00	17.18
ATOM	12060	CG	LYS	1812	24.817	-47.390	40.524	1.00	14.61
ATOM	12061	CD	LYS	1812	25.541	-46.214	40.188	1.00	14.45
ATOM	12062	CE	LYS	1812	26.733	-46.661	29.124	1.00	13.10
ATOM	12063	NZ	LYS	1812	26.844	-45.976	28.192	1.00	12.51
ATOM	12064	C	LYS	1812	23.238	-49.284	32.688	1.00	19.88
ATOM	12065	O	LYS	1812	23.840	-50.247	32.076	1.00	19.85
ATOM	12066	N	GLN	1814	21.511	-49.144	34.001	1.00	23.03
ATOM	12067	CA	GLN	1814	24.238	-50.156	34.785	1.00	26.55
ATOM	12068	CB	GLN	1814	24.339	-49.695	36.129	1.00	30.23
ATOM	12069	CG	GLN	1814	25.271	-48.461	36.580	1.00	36.91
ATOM	12070	CD	GLN	1814	25.444	-48.052	37.820	1.00	40.38
ATOM	12071	OE1	GLN	1814	25.625	-48.843	38.455	1.00	43.65
ATOM	12072	NE2	GLN	1814	25.037	-46.911	38.142	1.00	43.19
ATOM	12073	C	GLN	1814	23.431	-51.480	34.545	1.00	26.92
ATOM	12074	O	GLN	1814	24.036	-52.551	34.497	1.00	19.94
ATOM	12075	N	GLN	1814	23.155	-51.407	34.756	1.00	26.78
ATOM	12076	CA	GLN	1814	21.313	-52.595	34.720	1.00	16.97
ATOM	12077	CB	GLN	1814	19.947	-52.290	35.142	1.00	19.31
ATOM	12078	CG	GLN	1814	20.323	-51.678	36.135	1.00	35.92
ATOM	12079	CD	GLN	1814	18.652	-51.375	37.125	1.00	38.20
ATOM	12080	OE1	GLN	1814	17.878	-50.624	36.494	1.00	40.52
ATOM	12081	OE2	GLN	1814	18.552	-51.866	36.324	1.00	42.17
ATOM	12082	C	GLN	1814	21.118	-53.675	33.185	1.00	24.86
ATOM	12083	O	GLN	1814	20.503	-54.111	34.048	1.00	14.56
ATOM	12084	N	LYS	1816	21.651	-52.318	32.731	1.00	23.60
ATOM	12085	CA	LY	1816	21.516	-52.853	30.420	1.00	24.10
ATOM	12086	CB	LY	1816	22.168	-54.317	30.119	1.00	27.06
ATOM	12087	CG	LYS	1816	23.690	-53.956	30.494	1.00	29.88
ATOM	12088	CD	LYS	1816	24.168	-53.136	29.180	1.00	33.11
ATOM	12089	CE	LYS	1816	25.623	-52.434	28.190	1.00	34.77
ATOM	12090	NZ	LYS	1816	26.378	-54.205	29.060	1.00	36.10
ATOM	12091	C	LYS	1816	20.348	-52.451	30.190	1.00	13.58
ATOM	12092	O	LYS	1816	19.635	-53.456	29.456	1.00	12.99
ATOM	12093	N	LYS	1817	19.258	-51.767	31.181	1.00	22.19
ATOM	12094	CA	LYS	1817	19.847	-51.649	30.130	1.00	18.64
ATOM	12095	CB	LYS	1817	18.981	-51.431	31.073	1.00	23.35
ATOM	12096	CG	LYS	1817	19.498	-51.274	31.136	1.00	26.44
ATOM	12097	CD	LYS	1817	14.687	-50.176	31.101	1.00	33.13
ATOM	12098	CE	LYS	1817	14.649	-51.680	33.080	1.00	33.31
ATOM	12099	NZ	LYS	1817	13.841	-51.113	34.191	1.00	36.99
ATOM	12100	C	LYS	1817	17.653	-50.440	30.190	1.00	19.22
ATOM	12101	O	LYS	1817	17.761	-49.311	30.112	1.00	15.14
ATOM	12102	N	ARG	1818	17.373	-50.756	28.623	1.00	17.56
ATOM	12103	CA	ARG	1818	17.165	-49.723	27.115	1.00	17.68
ATOM	12104	CB	ARG	1818	17.122	-50.354	26.121	1.00	17.01
ATOM	12105	CG	ARG	1818	18.516	-50.556	25.563	1.00	20.64
ATOM	12106	CD	ARG	1818	18.134	-51.441	24.131	1.00	26.16
ATOM	12107	NE	ARG	1818	14.503	-52.846	24.671	1.00	27.97
ATOM	12108	CZ	ARG	1818	14.504	-53.847	24.333	1.00	30.30
ATOM	12109	NH1	ARG	1818	18.942	-53.611	22.602	1.00	31.08
ATOM	12110	NH2	ARG	1818	18.266	-55.091	24.123	1.00	30.79
ATOM	12111	C	ARG	1818	15.898	-48.933	27.590	1.00	16.78
ATOM	12112	O	ARG	1818	14.858	-49.523	28.187	1.00	17.29
ATOM	12113	N	PHE	1819	15.986	-47.615	27.695	1.00	15.71
ATOM	12114	CA	PHE	1819	14.849	-46.764	28.605	1.00	13.45
ATOM	12115	CB	PHE	1819	15.167	-45.940	29.258	1.00	12.38
ATOM	12116	CG	PHE	1819	14.395	-45.082	29.135	1.00	10.54
ATOM	12117	CD1	PHE	1819	16.107	-43.780	28.653	1.00	10.46

ATOM	12118	C	PHE	1-19	17.647	-43.576	29.446	1.00	11.28
ATOM	12119	HE	PHE	1-19	17.444	-43.580	28.546	1.00	10.07
ATOM	12120	HE	PHE	1-19	18.797	-44.787	29.384	1.00	12.19
ATOM	12121	CH	PHE	1-19	18.684	-44.484	28.904	1.00	10.00
ATOM	12122	C	PHE	1-19	14.46	-43.848	29.877	1.00	13.26
ATOM	12123	O	PHE	1-19	15.214	-46.404	26.057	1.00	11.06
ATOM	12124	N	ALA	1-20	15.19	-43.872	28.856	1.00	11.70
ATOM	12125	CA	ALA	1-20	12.52	-44.715	25.838	1.00	11.88
ATOM	12126	CP	ALA	1-20	11.114	-45.207	25.476	1.00	10.97
ATOM	12127	C	ALA	1-20	12.464	-43.256	26.162	1.00	11.52
ATOM	12128	O	ALA	1-20	12.287	-42.945	27.111	1.00	13.43
ATOM	12129	N	THR	1-21	12.59	-43.371	25.177	1.00	11.07
ATOM	12130	CA	THR	1-21	12.552	-40.122	25.141	1.00	11.82
ATOM	12131	CP	THR	1-21	13.977	-40.101	25.103	1.00	11.47
ATOM	12132	CG1	THR	1-21	14.756	-40.165	26.105	1.00	13.36
ATOM	12133	CG2	THR	1-21	15.917	-38.811	25.111	1.00	23.74
ATOM	12134	C	THR	1-21	11.706	-40.159	24.811	1.00	9.35
ATOM	12135	O	THR	1-21	11.554	-41.075	22.812	1.00	12.52
ATOM	12136	N	ILE	1-22	11.157	-39.101	24.465	1.00	10.58
ATOM	12137	CA	ILE	1-22	10.318	-38.690	23.885	1.00	9.32
ATOM	12138	CB	ILE	1-22	8.89	-39.197	23.134	1.00	10.75
ATOM	12139	CG1	ILE	1-22	8.162	-38.672	24.116	1.00	10.54
ATOM	12140	CG1	ILE	1-22	8.102	-39.056	23.132	1.00	13.24
ATOM	12141	CG1	ILE	1-22	6.801	-39.836	22.147	1.00	14.23
ATOM	12142	C	ILE	1-22	10.237	-37.169	23.415	1.00	12.04
ATOM	12143	O	ILE	1-22	10.473	-36.552	24.456	1.00	9.11
ATOM	12144	N	PHE	1-23	9.926	-36.865	22.869	1.00	10.88
ATOM	12145	CA	PHE	1-23	9.773	-35.119	22.211	1.00	13.72
ATOM	12146	CB	PHE	1-23	9.997	-34.570	20.966	1.00	11.54
ATOM	12147	CG1	PHE	1-23	9.001	-35.126	19.889	1.00	12.04
ATOM	12148	CG2	PHE	1-23	11.897	-34.336	20.179	1.00	14.14
ATOM	12149	C	PHE	1-23	8.358	-34.385	22.181	1.00	12.09
ATOM	12150	O	THR	1-23	7.436	-35.131	22.146	1.00	11.41
ATOM	12151	N	ALA	1-24	8.107	-33.549	23.137	1.00	10.84
ATOM	12152	CA	ALA	1-24	6.912	-33.134	21.176	1.00	10.40
ATOM	12153	CP	ALA	1-24	6.859	-33.671	21.137	1.00	9.05
ATOM	12154	C	ALA	1-24	6.973	-31.604	22.178	1.00	10.44
ATOM	12155	O	ALA	1-24	6.817	-31.031	24.137	1.00	9.73
ATOM	12156	N	TYR	1-25	5.867	-30.147	23.445	1.00	9.09
ATOM	12157	CA	TYR	1-25	5.863	-29.433	23.418	1.00	10.72
ATOM	12158	CB	TYR	1-25	6.002	-29.155	21.560	1.00	9.65
ATOM	12159	CG	TYR	1-25	7.028	-29.145	21.179	1.00	10.96
ATOM	12160	CG1	TYR	1-25	6.840	-30.636	20.118	1.00	13.14
ATOM	12161	CG1	TYR	1-25	7.578	-31.079	19.468	1.00	13.61
ATOM	12162	CG2	TYR	1-25	8.188	-29.436	21.121	1.00	11.15
ATOM	12163	CG2	TYR	1-25	9.541	-30.180	20.168	1.00	10.63
ATOM	12164	CZ	TYR	1-25	8.913	-31.116	19.142	1.00	13.50
ATOM	12165	OH	TYR	1-25	9.842	-31.182	18.178	1.00	13.92
ATOM	12166	C	TYR	1-25	4.413	-28.884	23.134	1.00	11.54
ATOM	12167	O	TYR	1-25	4.427	-27.842	23.136	1.00	13.15
ATOM	12168	N	ASH	1-26	-0.758	-29.666	26.135	1.00	9.46
ATOM	12169	CA	ASH	1-26	1.133	-29.141	25.170	1.00	10.19
ATOM	12170	CB	ASH	1-26	1.454	-29.020	24.184	1.00	10.93
ATOM	12171	CG	ASH	1-26	1.199	-30.181	23.171	1.00	13.46
ATOM	12172	CG1	ASH	1-26	0.753	-31.125	24.118	1.00	12.97
ATOM	12173	CG2	ASH	1-26	1.569	-30.656	21.134	1.00	14.15
ATOM	12174	C	ASH	1-26	1.158	-30.601	23.115	1.00	11.90
ATOM	12175	O	ASH	1-26	2.516	-31.120	26.149	1.00	12.69
ATOM	12176	N	TYR	1-27	1.177	-29.469	27.166	1.00	11.19
ATOM	12177	CA	TYR	1-27	0.497	-30.145	28.112	1.00	11.45
ATOM	12178	CB	TYR	1-27	-0.518	-29.112	28.179	1.00	12.27
ATOM	12179	CG	TYR	1-27	-1.358	-29.886	29.187	1.00	12.69
ATOM	12180	CG1	TYR	1-27	-0.913	-29.940	31.151	1.00	14.42
ATOM	12181	CG1	TYR	1-27	-1.696	-30.533	32.174	1.00	16.64
ATOM	12182	CG2	TYR	1-27	-2.610	-30.493	29.182	1.00	14.53
ATOM	12183	CG2	TYR	1-27	-3.401	-31.015	30.153	1.00	17.16
ATOM	12184	CZ	TYR	1-27	-2.931	-31.101	31.137	1.00	16.99
ATOM	12185	OH	TYR	1-27	-3.713	-31.636	32.161	1.00	16.74
ATOM	12186	C	TYR	1-27	-0.194	-31.433	27.131	1.00	11.79
ATOM	12187	O	TYR	1-27	0.010	-32.474	28.162	1.00	10.69
ATOM	12188	N	SER	1-28	-1.026	-31.506	26.145	1.00	9.98
ATOM	12189	CA	SER	1-28	-1.779	-32.713	26.553	1.00	12.49
ATOM	12190	CP	SER	1-28	-2.744	-32.415	25.405	1.00	11.71
ATOM	12191	CG	SER	1-28	-3.653	-31.420	25.819	1.00	16.55
ATOM	12192	C	SER	1-28	-0.943	-33.940	26.240	1.00	11.86
ATOM	12193	O	SER	1-28	-1.210	-35.027	26.763	1.00	9.82
ATOM	12194	N	PHE	1-29	0.075	-33.780	25.401	1.00	11.47

ATOM	12195	CA	PHE	1829	0.921	-34.918	23.732	1.00	11.15
ATOM	12196	CF	PHE	1829	1.675	-34.676	23.730	1.00	10.81
ATOM	12197	CG	PHE	1829	0.821	-34.948	22.525	1.00	10.15
ATOM	12198	CH	PHE	1829	0.759	-34.893	21.827	1.00	10.05
ATOM	12199	CD	PHE	1829	0.466	-34.256	22.110	1.00	9.31
ATOM	12200	CE	PHE	1829	-0.170	-34.134	20.713	1.00	9.40
ATOM	12201	CE1	PHE	1829	-0.219	-34.512	21.312	1.00	10.09
ATOM	12202	CE2	PHE	1829	-0.181	-34.451	20.727	1.00	9.43
ATOM	12203	C	PHE	1829	1.882	-34.323	26.131	1.00	11.61
ATOM	12204	O	PHE	1829	2.181	-36.291	26.511	1.00	9.86
ATOM	12205	N	ALA	1830	0.586	-34.164	26.529	1.00	9.93
ATOM	12206	CA	ALA	1830	3.589	-34.473	23.027	1.00	11.06
ATOM	12207	CB	ALA	1830	3.910	-33.168	22.683	1.00	13.38
ATOM	12208	C	ALA	1830	3.585	-35.284	23.111	1.00	12.33
ATOM	12209	O	ALA	1830	3.118	-36.102	23.729	1.00	12.34
ATOM	12210	N	LYS	1831	1.280	-34.863	29.326	1.00	10.34
ATOM	12211	CA	LYS	1831	0.435	-35.645	29.324	1.00	12.92
ATOM	12212	CB	LYS	1831	-0.884	-34.986	29.512	1.00	15.79
ATOM	12213	CG	LYS	1831	-1.882	-35.160	21.423	1.00	19.79
ATOM	12214	CD	LYS	1831	-1.386	-35.636	22.127	1.00	26.44
ATOM	12215	CE	LYS	1831	-2.551	-35.151	23.817	1.00	30.84
ATOM	12216	NZ	LYS	1831	-1.543	-36.196	23.420	1.00	32.55
ATOM	12217	C	LYS	1831	0.381	-37.371	23.666	1.00	10.03
ATOM	12218	O	LYS	1831	0.282	-38.326	21.613	1.00	16.29
ATOM	12219	N	LEU	1832	-0.118	-35.111	23.812	1.00	9.42
ATOM	12220	CA	LEU	1832	-0.449	-36.329	23.017	1.00	10.13
ATOM	12221	CB	LEU	1832	-0.811	-36.197	22.122	1.00	9.08
ATOM	12222	CG	LEU	1832	-1.385	-39.651	23.813	1.00	7.22
ATOM	12223	CD	LEU	1832	-2.185	-39.112	24.623	1.00	10.75
ATOM	12224	CE	LEU	1832	-0.185	-40.348	23.370	1.00	9.84
ATOM	12225	C	LEU	1832	0.584	-39.434	23.125	1.00	11.12
ATOM	12226	O	LEU	1832	0.682	-40.583	23.619	1.00	10.62
ATOM	12227	N	PHE	1833	1.948	-35.907	23.623	1.00	9.21
ATOM	12228	CA	PHE	1833	3.175	-35.690	23.021	1.00	10.32
ATOM	12229	CB	PHE	1833	3.385	-33.928	22.483	1.00	12.12
ATOM	12230	CG	PHE	1833	1.281	-35.754	23.823	1.00	10.12
ATOM	12231	CH	PHE	1833	0.572	-35.131	22.113	1.00	9.09
ATOM	12232	CL	PHE	1833	3.888	-34.327	23.423	1.00	11.46
ATOM	12233	CE1	PHE	1833	1.383	-33.989	21.728	1.00	9.84
ATOM	12234	CE2	PHE	1833	3.178	-35.134	23.115	1.00	9.84
ATOM	12235	CF	PHE	1833	3.031	-37.160	23.124	1.00	11.51
ATOM	12236	C	PHE	1833	3.488	-40.145	23.486	1.00	11.08
ATOM	12237	O	PHE	1833	3.687	-41.204	23.813	1.00	11.24
ATOM	12238	N	ALA	1834	0.582	-35.145	21.329	1.00	11.64
ATOM	12239	CA	ALA	1834	3.631	-35.385	21.722	1.00	12.54
ATOM	12240	CB	ALA	1834	3.480	-37.872	22.529	1.00	15.69
ATOM	12241	C	ALA	1834	3.632	-40.349	22.327	1.00	13.66
ATOM	12242	O	ALA	1834	3.110	-41.266	23.120	1.00	13.66
ATOM	12243	N	ASP	1835	1.419	-34.111	24.681	1.00	13.22
ATOM	12244	CA	ASP	1835	0.488	-34.196	23.801	1.00	12.58
ATOM	12245	CB	ASP	1835	-0.688	-34.815	22.123	1.00	20.28
ATOM	12246	CG	ASP	1835	-1.437	-35.651	21.823	1.00	21.22
ATOM	12247	CH	ASP	1835	-0.686	-35.125	23.813	1.00	11.22
ATOM	12248	CL	ASP	1835	-2.385	-35.196	22.323	1.00	20.23
ATOM	12249	C	ASP	1835	0.284	-40.125	22.623	1.00	13.81
ATOM	12250	O	ASP	1835	0.158	-40.651	22.622	1.00	13.81
ATOM	12251	N	GLU	1836	1.551	-34.191	21.013	1.00	11.52
ATOM	12252	CA	GLU	1836	1.995	-34.124	21.527	1.00	13.86
ATOM	12253	CB	GLU	1836	1.966	-34.189	23.013	1.00	13.08
ATOM	12254	CG	GLU	1836	0.634	-34.845	23.523	1.00	13.80
ATOM	12255	CD	GLU	1836	-0.488	-34.817	23.695	1.00	14.45
ATOM	12256	CE1	GLU	1836	-0.711	-36.126	23.216	1.00	13.58
ATOM	12257	CE2	GLU	1836	-1.558	-34.895	23.124	1.00	13.26
ATOM	12258	C	GLU	1836	3.246	-34.686	21.123	1.00	13.46
ATOM	12259	O	GLU	1836	3.632	-40.344	21.193	1.00	14.15
ATOM	12260	N	GLY	1837	0.962	-43.770	21.782	1.00	13.62
ATOM	12261	CA	GLY	1837	5.252	-44.112	21.526	1.00	13.92
ATOM	12262	C	GLY	1837	5.442	-45.695	21.321	1.00	13.40
ATOM	12263	O	GLY	1837	7.587	-44.111	21.781	1.00	13.75
ATOM	12264	N	LEU	1838	6.137	-42.879	29.466	1.00	13.02
ATOM	12265	CA	LEU	1838	7.263	-42.584	29.528	1.00	14.52
ATOM	12266	CB	LEU	1838	6.763	-42.175	29.128	1.00	13.28
ATOM	12267	CG	LEU	1838	7.637	-42.571	27.065	1.00	21.26
ATOM	12268	CD	LEU	1838	6.937	-41.842	25.714	1.00	13.89
ATOM	12269	CE	LEU	1838	3.983	-41.721	27.225	1.00	20.44
ATOM	12270	C	LEU	1838	7.642	-41.075	30.227	1.00	17.12
ATOM	12271	O	LEU	1838	7.054	-40.024	29.967	1.00	16.93

ATOM	12272	N	ASN	1339	8.632	-41.160	31.152	1.00	19.21
ATOM	12273	CA	ASN	1339	9.066	-40.046	31.271	1.00	17.01
ATOM	12274	CB	ASN	1339	9.234	-40.551	32.433	1.00	20.82
ATOM	12275	CG	ASN	1339	8.011	-41.318	31.367	1.00	21.22
ATOM	12276	OD1	ASN	1339	6.867	-40.885	31.732	1.00	23.71
ATOM	12277	ND2	ASN	1339	8.243	-42.352	31.517	1.00	26.34
ATOM	12278	C	ASN	1339	10.313	-39.776	31.567	1.00	19.33
ATOM	12279	O	ASN	1339	10.266	-38.62	31.367	1.00	19.31
ATOM	12280	N	VAL	1340	13.664	-39.34	36.236	1.00	14.35
ATOM	12281	CA	VAL	1340	11.341	-38.607	36.879	1.00	13.33
ATOM	12282	CB	VAL	1340	13.027	-39.333	36.54	1.00	13.11
ATOM	12283	CG1	VAL	1340	13.321	-38.831	36.113	1.00	13.43
ATOM	12284	CG2	VAL	1340	13.348	-39.333	36.113	1.00	16.08
ATOM	12285	C	VAL	1340	11.309	-38.834	36.563	1.00	13.96
ATOM	12286	O	VAL	1340	11.113	-38.833	36.563	1.00	13.13
ATOM	12287	N	MET	1341	11.367	-38.362	36.363	1.00	13.19
ATOM	12288	CA	MET	1341	13.993	-38.363	36.363	1.00	13.11
ATOM	12289	CB	MET	1341	9.532	-38.363	36.363	1.00	13.33
ATOM	12290	CG	MET	1341	8.452	-38.363	36.363	1.00	13.33
ATOM	12291	SD	MET	1341	8.263	-38.363	36.363	1.00	13.33
ATOM	12292	CE	MET	1341	8.633	-38.363	36.363	1.00	13.33
ATOM	12293	C	MET	1341	11.363	-38.363	36.363	1.00	13.33
ATOM	12294	O	MET	1341	12.468	-38.363	36.363	1.00	13.33
ATOM	12295	N	LEU	1342	11.363	-38.363	36.363	1.00	13.33
ATOM	12296	CA	LEU	1342	12.338	-38.363	36.363	1.00	11.33
ATOM	12297	CB	LEU	1342	13.304	-38.363	36.363	1.00	14.33
ATOM	12298	CG	LEU	1342	14.379	-38.363	36.363	1.00	20.33
ATOM	12299	CD1	LEU	1342	14.389	-38.363	36.363	1.00	23.13
ATOM	12300	CD2	LEU	1342	15.353	-38.363	36.363	1.00	13.33
ATOM	12301	C	LEU	1342	12.363	-38.363	36.363	1.00	11.33
ATOM	12302	O	LEU	1342	11.346	-38.363	36.363	1.00	13.33
ATOM	12303	N	VAL	1343	12.363	-38.363	36.363	1.00	11.33
ATOM	12304	CA	VAL	1343	11.363	-38.363	36.363	1.00	13.33
ATOM	12305	CB	VAL	1343	11.363	-38.363	36.363	1.00	13.33
ATOM	12306	CG1	VAL	1343	10.363	-38.363	36.363	1.00	13.33
ATOM	12307	CG2	VAL	1343	10.363	-38.363	36.363	1.00	13.33
ATOM	12308	C	VAL	1343	12.363	-38.363	36.363	1.00	13.33
ATOM	12309	O	VAL	1343	13.363	-38.363	36.363	1.00	13.33
ATOM	12310	N	GLY	1344	12.363	-38.363	36.363	1.00	13.33
ATOM	12311	CA	GLY	1344	12.363	-38.363	36.363	1.00	13.33
ATOM	12312	C	GLY	1344	12.363	-38.363	36.363	1.00	13.33
ATOM	12313	O	GLY	1344	12.363	-38.363	36.363	1.00	13.33
ATOM	12314	N	ASP	1345	13.363	-38.363	36.363	1.00	13.33
ATOM	12315	CA	ASP	1345	14.363	-38.363	36.363	1.00	14.33
ATOM	12316	CB	ASP	1345	15.363	-38.363	36.363	1.00	16.33
ATOM	12317	CG	ASP	1345	16.363	-38.363	36.363	1.00	19.33
ATOM	12318	OD1	ASP	1345	16.479	-38.363	36.363	1.00	20.33
ATOM	12319	OD2	ASP	1345	17.363	-38.363	36.363	1.00	24.33
ATOM	12320	C	ASP	1345	13.363	-38.363	36.363	1.00	14.33
ATOM	12321	O	ASP	1345	13.363	-38.363	36.363	1.00	14.33
ATOM	12322	N	SER	1346	12.363	-38.363	36.363	1.00	11.33
ATOM	12323	CA	SER	1346	12.363	-38.363	36.363	1.00	11.33
ATOM	12324	CB	SER	1346	12.363	-38.363	36.363	1.00	11.33
ATOM	12325	CG	SER	1346	12.363	-38.363	36.363	1.00	11.33
ATOM	12326	C	SER	1346	11.363	-38.363	36.363	1.00	13.33
ATOM	12327	O	SER	1346	10.363	-38.363	36.363	1.00	13.33
ATOM	12328	N	LEU	1347	10.363	-38.363	36.363	1.00	13.33
ATOM	12329	CA	LEU	1347	9.363	-38.363	36.363	1.00	13.33
ATOM	12330	CB	LEU	1347	9.363	-38.363	36.363	1.00	13.33
ATOM	12331	CG	LEU	1347	10.363	-38.363	36.363	1.00	13.33
ATOM	12332	CD1	LEU	1347	9.448	-38.444	36.363	1.00	13.33
ATOM	12333	CD2	LEU	1347	10.363	-38.363	36.363	1.00	13.33
ATOM	12334	C	LEU	1347	9.363	-38.363	36.363	1.00	13.33
ATOM	12335	O	LEU	1347	8.241	-38.363	36.363	1.00	13.33
ATOM	12336	N	GLY	1348	10.363	-38.363	36.363	1.00	13.33
ATOM	12337	CA	GLY	1348	10.363	-38.363	36.363	1.00	13.33
ATOM	12338	C	GLY	1348	9.363	-38.363	36.363	1.00	12.33
ATOM	12339	O	GLY	1348	9.363	-38.363	36.363	1.00	11.33
ATOM	12340	N	MET	1349	10.363	-38.363	36.363	1.00	12.33
ATOM	12341	CA	MET	1349	9.344	-37.639	36.363	1.00	14.33
ATOM	12342	CB	MET	1349	10.408	-38.091	36.363	1.00	13.33
ATOM	12343	CG	MET	1349	11.363	-37.172	36.363	1.00	19.33
ATOM	12344	SD	MET	1349	12.363	-38.363	36.363	1.00	24.33
ATOM	12345	CE	MET	1349	12.363	-38.363	36.363	1.00	24.33
ATOM	12346	C	MET	1349	8.093	-37.724	36.363	1.00	12.33
ATOM	12347	O	MET	1349	7.097	-37.596	36.363	1.00	13.33
ATOM	12348	N	THR	1350	8.052	-28.613	32.518	1.00	13.89

ATOM	12349	CA	THR	1350	6.826	-29.321	13.752	1.00	13.07
ATOM	12350	CB	THR	1350	7.165	-30.523	13.756	1.00	16.49
ATOM	12351	CG1	THR	1350	6.003	-31.332	14.735	1.00	23.16
ATOM	12352	CG2	THR	1350	7.657	-30.334	16.116	1.00	13.79
ATOM	12353	C	THR	1350	5.722	-29.477	14.702	1.00	13.43
ATOM	12354	O	THR	1350	4.529	-28.703	13.732	1.00	13.06
ATOM	12355	N	VAL	1351	5.101	-23.909	13.719	1.00	3.33
ATOM	12356	CA	VAL	1351	5.045	-25.062	13.763	1.00	10.11
ATOM	12357	CB	VAL	1351	5.447	-26.486	13.456	1.00	9.33
ATOM	12358	CG1	VAL	1351	4.436	-25.449	13.777	1.00	9.33
ATOM	12359	CG2	VAL	1351	5.419	-27.719	14.773	1.00	9.77
ATOM	12360	C	VAL	1351	4.914	-25.316	13.767	1.00	10.37
ATOM	12361	O	VAL	1351	3.776	-24.649	13.738	1.00	10.79
ATOM	12362	N	GLN	1352	5.777	-23.604	13.727	1.00	3.93
ATOM	12363	CA	GLN	1352	5.759	-24.773	13.731	1.00	10.14
ATOM	12364	CB	GLN	1352	5.133	-23.466	14.701	1.00	10.37
ATOM	12365	CG	GLN	1352	5.779	-23.402	16.713	1.00	11.63
ATOM	12366	CD	GLN	1352	4.790	-24.771	16.707	1.00	13.36
ATOM	12367	CE1	GLN	1352	9.667	-21.730	15.763	1.00	11.36
ATOM	12368	CE2	GLN	1352	3.545	-25.760	17.731	1.00	3.43
ATOM	12369	C	GLN	1352	5.793	-23.777	13.733	1.00	11.76
ATOM	12370	O	GLN	1352	5.301	-24.734	13.735	1.00	11.73
ATOM	12371	N	GLY	1353	6.757	-24.339	13.233	1.00	3.83
ATOM	12372	CA	GLY	1353	6.719	-24.377	13.733	1.00	10.33
ATOM	12373	C	GLY	1353	7.117	-23.677	16.741	1.00	11.71
ATOM	12374	O	GLY	1353	6.701	-23.534	13.766	1.00	11.91
ATOM	12375	H	HIS	1354	3.345	-23.618	10.731	1.00	11.31
ATOM	12376	CA	HIS	1354	9.337	-23.876	13.768	1.00	13.71
ATOM	12377	CB	HIS	1354	10.334	-23.917	13.734	1.00	13.74
ATOM	12378	CG	HIS	1354	9.967	-24.739	11.732	1.00	13.99
ATOM	12379	CD	HIS	1354	9.776	-23.783	13.737	1.00	13.78
ATOM	12380	CE1	HIS	1354	9.666	-24.769	13.738	1.00	11.73
ATOM	12381	CE2	HIS	1354	3.386	-23.193	11.738	1.00	13.73
ATOM	12382	NE2	HIS	1354	3.771	-23.713	11.737	1.00	13.73
ATOM	12383	C	HIS	1354	10.331	-24.725	13.737	1.00	13.73
ATOM	12384	O	HIS	1354	10.334	-23.739	13.738	1.00	13.73
ATOM	12385	N	ASP	1355	11.709	-23.733	13.733	1.00	13.73
ATOM	12386	CA	ASP	1355	11.713	-24.731	13.733	1.00	23.73
ATOM	12387	CB	ASP	1355	12.331	-23.733	13.733	1.00	23.73
ATOM	12388	CG	ASP	1355	13.717	-23.717	13.733	1.00	23.73
ATOM	12389	CD	ASP	1355	14.317	-23.717	13.733	1.00	33.73
ATOM	12390	CE	ASP	1355	11.717	-23.717	13.733	1.00	33.73
ATOM	12391	C	ASP	1355	13.717	-23.717	13.733	1.00	13.73
ATOM	12392	O	ASP	1355	13.717	-23.717	13.733	1.00	13.73
ATOM	12393	N	SER	1356	13.717	-23.717	13.733	1.00	13.73
ATOM	12394	CA	SER	1356	14.317	-23.717	13.733	1.00	13.73
ATOM	12395	CB	SER	1356	15.717	-23.717	13.733	1.00	13.73
ATOM	12396	CG	SER	1356	15.717	-23.717	13.733	1.00	13.73
ATOM	12397	C	SER	1356	14.317	-23.717	13.733	1.00	13.73
ATOM	12398	O	SER	1356	15.717	-23.717	13.733	1.00	13.73
ATOM	12399	N	THR	1357	15.717	-23.717	13.733	1.00	13.73
ATOM	12400	CA	THR	1357	15.717	-23.717	13.733	1.00	13.73
ATOM	12401	CB	THR	1357	15.717	-23.717	13.733	1.00	13.73
ATOM	12402	CG	THR	1357	15.717	-23.717	13.733	1.00	13.73
ATOM	12403	CD	THR	1357	15.717	-23.717	13.733	1.00	13.73
ATOM	12404	CE	THR	1357	15.717	-23.717	13.733	1.00	13.73
ATOM	12405	C	THR	1357	15.717	-23.717	13.733	1.00	13.73
ATOM	12406	O	THR	1357	15.717	-23.717	13.733	1.00	13.73
ATOM	12407	N	LEU	1358	16.317	-23.717	13.733	1.00	13.73
ATOM	12408	CA	LEU	1358	17.117	-23.717	13.733	1.00	13.73
ATOM	12409	CB	LEU	1358	17.117	-23.717	13.733	1.00	13.73
ATOM	12410	CG	LEU	1358	19.317	-23.717	13.733	1.00	18.73
ATOM	12411	CD	LEU	1358	18.317	-23.717	13.733	1.00	18.73
ATOM	12412	CE	LEU	1358	20.079	-23.717	13.733	1.00	16.73
ATOM	12413	C	LEU	1358	16.317	-23.717	13.733	1.00	13.73
ATOM	12414	O	LEU	1358	16.717	-23.717	13.733	1.00	13.73
ATOM	12415	N	PRO	1359	15.927	-23.717	13.733	1.00	11.73
ATOM	12416	CA	PRO	1359	14.417	-23.717	13.733	1.00	13.73
ATOM	12417	CB	PRO	1359	14.117	-23.717	13.733	1.00	13.73
ATOM	12418	CG	PRO	1359	17.969	-23.717	13.733	1.00	20.73
ATOM	12419	C	PRO	1359	13.733	-23.717	13.733	1.00	13.73
ATOM	12420	O	PRO	1359	13.431	-23.717	13.733	1.00	11.73
ATOM	12421	N	VAL	1360	13.833	-23.717	13.733	1.00	9.89
ATOM	12422	CA	VAL	1360	13.487	-23.717	13.733	1.00	9.89
ATOM	12423	CB	VAL	1360	12.670	-23.717	13.733	1.00	9.99
ATOM	12424	CG1	VAL	1360	13.225	-23.717	13.733	1.00	10.58
ATOM	12425	CG2	VAL	1360	12.816	-23.717	13.733	1.00	10.13

ATOM	12426	C	VAL	1860	14.341	-20.116	18.507	1.00	9.53
ATOM	12427	C	VAL	1860	15.570	-20.165	18.449	1.00	9.57
ATOM	12428	N	THR	1861	13.691	-19.419	18.445	1.00	9.74
ATOM	12429	CA	THR	1861	14.410	-18.633	20.442	1.00	12.01
ATOM	12430	CB	THR	1861	13.845	-15.199	20.509	1.00	15.97
ATOM	12431	OG1	THR	1861	13.816	-16.623	19.191	1.00	20.58
ATOM	12432	OG2	THR	1861	14.720	-16.325	19.387	1.00	23.49
ATOM	12433	C	THR	1861	14.367	-19.270	21.232	1.00	11.31
ATOM	12434	O	THR	1861	13.603	-20.199	22.072	1.00	9.35
ATOM	12435	N	VAL	1862	15.214	-18.773	22.717	1.00	11.39
ATOM	12436	CA	VAL	1862	15.251	-19.275	24.679	1.00	11.61
ATOM	12437	CB	VAL	1862	16.304	-18.524	24.670	1.00	11.69
ATOM	12438	OG1	VAL	1862	16.238	-18.982	26.167	1.00	12.48
ATOM	12439	OG2	VAL	1862	17.718	-18.775	24.149	1.00	13.06
ATOM	12440	C	VAL	1862	13.863	-19.060	24.195	1.00	11.11
ATOM	12441	O	VAL	1862	13.366	-19.965	25.198	1.00	11.61
ATOM	12442	N	ALA	1863	13.827	-17.941	24.421	1.00	10.93
ATOM	12443	CA	ALA	1863	11.894	-17.697	24.966	1.00	10.99
ATOM	12444	CB	ALA	1863	11.890	-18.316	24.125	1.00	13.54
ATOM	12445	O	ALA	1863	10.803	-18.773	24.699	1.00	10.75
ATOM	12446	O	ALA	1863	10.663	-19.240	25.178	1.00	8.92
ATOM	12447	N	ASP	1864	11.021	-18.141	23.121	1.00	8.90
ATOM	12448	CA	ASP	1864	10.137	-20.191	22.689	1.00	9.84
ATOM	12449	CB	ASP	1864	10.481	-20.488	21.131	1.00	9.14
ATOM	12450	CG	ASP	1864	10.166	-19.312	20.183	1.00	9.13
ATOM	12451	OD1	ASP	1864	9.138	-18.581	20.430	1.00	11.77
ATOM	12452	OD2	ASP	1864	10.138	-19.187	19.172	1.00	10.86
ATOM	12453	C	ASP	1864	10.078	-21.487	23.136	1.00	9.18
ATOM	12454	O	ASP	1864	9.038	-22.114	23.181	1.00	8.41
ATOM	12455	N	ILE	1865	11.883	-21.876	23.860	1.00	8.67
ATOM	12456	CA	ILE	1865	11.878	-22.111	24.838	1.00	9.11
ATOM	12457	CB	ILE	1865	13.460	-23.315	24.520	1.00	9.33
ATOM	12458	CG2	ILE	1865	13.888	-24.518	25.430	1.00	11.52
ATOM	12459	CG1	ILE	1865	14.317	-23.616	23.133	1.00	9.79
ATOM	12460	CD1	ILE	1865	13.119	-24.815	22.137	1.00	8.07
ATOM	12461	O	ILE	1865	11.881	-22.016	25.139	1.00	9.15
ATOM	12462	O	ILE	1865	10.881	-22.991	26.181	1.00	9.30
ATOM	12463	N	ALA	1866	11.334	-22.906	26.131	1.00	7.40
ATOM	12464	CA	ALA	1866	10.990	-22.716	27.149	1.00	5.92
ATOM	12465	CB	ALA	1866	11.871	-20.335	28.107	1.00	6.24
ATOM	12466	O	ALA	1866	9.381	-22.879	27.131	1.00	8.68
ATOM	12467	O	ALA	1866	8.883	-22.480	28.116	1.00	6.71
ATOM	12468	N	TYR	1867	8.888	-22.319	16.801	1.00	7.88
ATOM	12469	CA	TYR	1867	7.887	-22.421	26.817	1.00	9.45
ATOM	12470	CB	TYR	1867	6.889	-20.700	25.810	1.00	8.56
ATOM	12471	CG	TYR	1867	5.893	-20.839	25.814	1.00	8.40
ATOM	12472	CD1	TYR	1867	4.884	-22.217	26.134	1.00	11.09
ATOM	12473	CD2	TYR	1867	3.880	-22.316	26.810	1.00	11.97
ATOM	12474	O	TYR	1867	4.881	-22.486	24.817	1.00	9.90
ATOM	12475	CG2	TYR	1867	3.880	-22.501	23.821	1.00	9.81
ATOM	12476	CZ	TYR	1867	2.880	-20.968	24.810	1.00	9.83
ATOM	12477	OH	TYR	1867	1.881	-22.372	24.810	1.00	11.31
ATOM	12478	O	TYR	1867	2.880	-22.874	26.810	1.00	8.96
ATOM	12479	O	TYR	1867	5.884	-22.308	27.810	1.00	8.93
ATOM	12480	N	HIS	1868	7.881	-22.629	25.810	1.00	7.87
ATOM	12481	CA	HIS	1868	7.881	-22.616	26.810	1.00	10.37
ATOM	12482	CB	HIS	1868	7.881	-22.543	14.810	1.00	8.87
ATOM	12483	CG	HIS	1868	6.881	-24.989	23.810	1.00	9.11
ATOM	12484	CD2	HIS	1868	7.881	-25.908	22.810	1.00	9.03
ATOM	12485	ND1	HIS	1868	5.881	-25.267	22.810	1.00	8.93
ATOM	12486	OE1	HIS	1868	5.881	-24.480	21.810	1.00	8.96
ATOM	12487	NE2	HIS	1868	6.881	-23.674	21.810	1.00	8.75
ATOM	12488	O	HIS	1868	7.881	-25.890	26.810	1.00	10.42
ATOM	12489	O	HIS	1868	6.880	-26.804	27.810	1.00	9.01
ATOM	12490	N	THR	1869	8.881	-25.481	27.810	1.00	10.19
ATOM	12491	CA	THR	1869	9.881	-26.197	28.810	1.00	10.01
ATOM	12492	CB	THR	1869	10.880	-25.689	29.810	1.00	11.08
ATOM	12493	OG1	THR	1869	11.884	-25.995	28.022	1.00	11.79
ATOM	12494	OG2	THR	1869	10.884	-26.205	30.810	1.00	10.61
ATOM	12495	O	THR	1869	8.881	-26.037	29.810	1.00	10.50
ATOM	12496	O	THR	1869	7.880	-27.086	30.810	1.00	9.02
ATOM	12497	N	ALA	1870	7.881	-24.884	30.810	1.00	9.46
ATOM	12498	CA	ALA	1870	6.883	-24.719	31.145	1.00	10.75
ATOM	12499	CB	ALA	1870	6.391	-23.212	31.131	1.00	11.04
ATOM	12500	O	ALA	1870	5.416	-25.553	30.909	1.00	10.58
ATOM	12501	O	ALA	1870	4.886	-26.180	31.831	1.00	11.31
ATOM	12502	N	ALA	1871	4.939	-25.568	29.672	1.00	9.74

ATOM	12505	CA	ALA	1-71	4.737	-26.332	29.447	1.00	10.34
ATOM	12506	CB	ALA	1-71	4.324	-26.056	27.907	1.00	9.64
ATOM	12508	C	ALA	1-71	4.965	-27.818	29.556	1.00	10.87
ATOM	12508	O	ALA	1-71	4.101	-28.514	30.116	1.00	11.14
ATOM	12507	N	VAL	1-72	5.119	-28.343	29.126	1.00	8.50
ATOM	12509	CA	VAL	1-72	5.414	-28.754	29.360	1.00	9.40
ATOM	12509	CB	VAL	1-72	6.724	-30.161	28.569	1.00	8.60
ATOM	12510	CG1	VAL	1-72	7.169	-31.563	29.019	1.00	5.70
ATOM	12511	CG2	VAL	1-72	6.483	-30.174	27.061	1.00	8.96
ATOM	12512	C	VAL	1-72	5.513	-30.073	30.788	1.00	10.46
ATOM	12512	O	VAL	1-72	4.979	-31.035	31.245	1.00	11.39
ATOM	12514	N	ALA	1-73	6.182	-29.221	31.549	1.00	10.38
ATOM	12515	CA	ARG	1-73	6.311	-29.450	32.980	1.00	9.63
ATOM	12516	CB	ARG	1-73	7.153	-28.343	33.647	1.00	11.14
ATOM	12517	CG	ARG	1-73	7.283	-28.505	35.177	1.00	10.54
ATOM	12518	CD	ARG	1-73	7.357	-29.378	35.567	1.00	12.14
ATOM	12519	NE	ARG	1-73	9.199	-30.021	35.268	1.00	15.69
ATOM	12520	CZ	ARG	1-73	9.939	-31.172	35.250	1.00	12.78
ATOM	12521	NH1	ARG	1-73	9.240	-30.304	35.461	1.00	15.44
ATOM	12522	NH2	ARG	1-73	11.212	-31.237	35.025	1.00	12.86
ATOM	12523	C	ARG	1-73	4.934	-29.621	33.645	1.00	10.64
ATOM	12524	O	ARG	1-73	4.736	-29.339	34.562	1.00	12.04
ATOM	12525	N	ALA	1-74	3.963	-28.713	33.190	1.00	9.73
ATOM	12526	CA	ARG	1-74	2.691	-28.750	33.774	1.00	10.06
ATOM	12527	CB	ARG	1-74	1.736	-28.649	33.206	1.00	12.21
ATOM	12528	CG	ARG	1-74	2.385	-28.243	33.444	1.00	15.06
ATOM	12529	CD	ARG	1-74	1.310	-28.188	33.364	1.00	15.00
ATOM	12530	NE	ARG	1-74	2.368	-28.343	33.592	1.00	15.73
ATOM	12531	CZ	ARG	1-74	2.419	-28.171	32.637	1.00	19.11
ATOM	12532	NH1	ARG	1-74	2.317	-28.517	32.373	1.00	14.11
ATOM	12533	NH2	ARG	1-74	3.917	-29.061	32.955	1.00	15.47
ATOM	12534	C	ARG	1-74	1.310	-30.119	33.536	1.00	21.41
ATOM	12535	O	ARG	1-74	1.173	-30.632	34.424	1.00	14.78
ATOM	12536	N	GLY	1-75	2.280	-30.696	32.380	1.00	11.10
ATOM	12537	CA	GLY	1-75	1.606	-30.399	32.077	1.00	10.19
ATOM	12538	C	GLY	1-75	2.313	-30.182	32.720	1.00	10.71
ATOM	12539	O	GLY	1-75	1.288	-30.140	32.021	1.00	9.90
ATOM	12540	N	ALA	1-76	3.407	-30.101	32.835	1.00	11.31
ATOM	12541	CA	ALA	1-76	4.156	-30.071	33.525	1.00	11.60
ATOM	12542	CB	ALA	1-76	5.393	-30.718	32.430	1.00	14.17
ATOM	12543	C	ALA	1-76	5.393	-30.718	34.631	1.00	12.32
ATOM	12544	O	ALA	1-76	6.660	-30.374	34.450	1.00	11.02
ATOM	12545	N	LEU	1-77	4.771	-30.321	35.806	1.00	14.34
ATOM	12546	CD	LEU	1-77	3.170	-30.476	36.216	1.00	14.07
ATOM	12547	CA	LEU	1-77	5.354	-30.167	36.920	1.00	15.63
ATOM	12548	CB	LEU	1-77	4.191	-29.878	37.964	1.00	15.78
ATOM	12549	CG	LEU	1-77	5.468	-29.421	37.736	1.00	18.10
ATOM	12550	C	LEU	1-77	6.608	-29.121	37.462	1.00	16.14
ATOM	12551	O	LEU	1-77	5.333	-29.083	38.132	1.00	18.04
ATOM	12552	N	ARG	1-78	6.686	-30.801	37.146	1.00	15.79
ATOM	12553	CA	ARG	1-78	7.703	-30.718	37.678	1.00	15.01
ATOM	12554	CB	ARG	1-78	5.003	-30.696	38.788	1.00	22.40
ATOM	12555	CG	ARG	1-78	6.081	-30.371	39.400	1.00	25.14
ATOM	12556	CD1	ARG	1-78	6.463	-30.389	40.359	1.00	26.03
ATOM	12557	CD2	ARG	1-78	4.814	-30.294	39.255	1.00	28.09
ATOM	12558	C	ARG	1-78	8.710	-30.399	36.195	1.00	17.01
ATOM	12559	O	ARG	1-78	9.804	-30.163	36.919	1.00	16.69
ATOM	12560	N	CYS	1-79	9.338	-30.176	35.549	1.00	15.14
ATOM	12561	CA	CYS	1-79	9.487	-30.158	34.109	1.00	18.88
ATOM	12562	CB	CYS	1-79	8.890	-31.101	32.915	1.00	14.10
ATOM	12563	SG	CYS	1-79	9.027	-34.160	32.186	1.00	16.19
ATOM	12564	C	CYS	1-79	10.865	-35.596	34.365	1.00	13.72
ATOM	12565	O	CYS	1-79	11.685	-34.604	35.062	1.00	13.35
ATOM	12566	N	LEU	1-80	11.860	-30.125	35.658	1.00	13.06
ATOM	12567	CA	LEU	1-80	13.150	-30.666	32.540	1.00	13.11
ATOM	12568	CB	LEU	1-80	14.188	-30.746	32.317	1.00	12.70
ATOM	12569	CG	LEU	1-80	15.583	-30.162	32.644	1.00	12.15
ATOM	12570	CD1	LEU	1-80	16.056	-30.315	34.242	1.00	14.10
ATOM	12571	CD2	LEU	1-80	16.161	-30.299	32.782	1.00	15.31
ATOM	12572	C	LEU	1-80	12.926	-34.860	32.259	1.00	11.17
ATOM	12573	O	LEU	1-80	12.573	-35.490	31.721	1.00	12.83
ATOM	12574	N	LEU	1-81	13.124	-32.547	32.324	1.00	8.79
ATOM	12575	CA	LEU	1-81	12.881	-32.705	31.166	1.00	10.82
ATOM	12576	CB	LEU	1-81	11.882	-31.600	31.534	1.00	11.46
ATOM	12577	CG	LEU	1-81	11.152	-30.774	30.459	1.00	14.79
ATOM	12578	CD1	LEU	1-81	10.169	-29.869	31.176	1.00	14.22
ATOM	12579	CD2	LEU	1-81	12.096	-29.933	29.599	1.00	17.18

ATOM	12530	O	LEU	1881	14.139	-32.077	31.271	1.00	11.03
ATOM	12531	O	LEU	1881	14.400	-31.124	31.231	1.00	11.13
ATOM	12532	N	LEU	1881	14.400	-32.434	29.342	1.00	11.10
ATOM	12533	CA	LEU	1881	15.622	-31.885	28.638	1.00	11.79
ATOM	12534	CB	LEU	1881	16.333	-31.952	27.867	1.00	11.43
ATOM	12535	CG	LEU	1881	17.103	-31.971	28.638	1.00	11.97
ATOM	12536	CH1	LEU	1881	16.333	-31.836	29.437	1.00	12.09
ATOM	12537	CH2	LEU	1881	17.860	-31.878	27.577	1.00	11.73
ATOM	12538	O	LEU	1881	15.146	-31.767	27.787	1.00	11.92
ATOM	12539	O	LEU	1881	14.171	-31.926	27.951	1.00	11.46
ATOM	12540	N	ALA	1881	15.388	-29.623	27.857	1.00	11.32
ATOM	12541	CA	ALA	1881	15.426	-28.570	26.997	1.00	11.45
ATOM	12542	CB	ALA	1881	14.969	-27.342	27.821	1.00	11.10
ATOM	12543	C	ALA	1881	16.604	-28.132	26.141	1.00	11.52
ATOM	12544	O	ALA	1881	17.548	-28.030	26.637	1.00	10.54
ATOM	12545	N	ASP	1884	16.184	-27.941	24.857	1.00	12.57
ATOM	12546	CA	ASP	1884	17.447	-27.533	23.737	1.00	12.76
ATOM	12547	CB	ASP	1884	16.881	-27.649	22.447	1.00	11.52
ATOM	12548	CG	ASP	1884	17.151	-24.961	21.827	1.00	11.04
ATOM	12549	CH1	ASP	1884	17.187	-24.851	22.517	1.00	11.51
ATOM	12550	CH2	ASP	1884	17.198	-24.693	20.617	1.00	11.48
ATOM	12601	C	ASP	1884	17.185	-24.069	24.137	1.00	11.66
ATOM	12602	O	ASP	1884	16.834	-23.217	24.557	1.00	11.13
ATOM	12603	N	LEU	1885	19.749	-23.719	23.887	1.00	11.80
ATOM	12604	CA	LEU	1885	19.449	-24.318	23.867	1.00	12.01
ATOM	12605	CB	LEU	1885	20.360	-24.097	24.411	1.00	11.51
ATOM	12606	CG	LEU	1885	20.881	-23.044	25.837	1.00	11.75
ATOM	12607	CH1	LEU	1885	22.113	-23.553	26.377	1.00	11.19
ATOM	12608	CH2	LEU	1885	19.463	-23.123	26.467	1.00	11.95
ATOM	12609	O	LEU	1885	19.572	-24.132	22.347	1.00	10.80
ATOM	12610	O	LEU	1885	20.173	-21.932	21.657	1.00	11.71
ATOM	12611	N	PRO	1886	18.896	-23.245	21.793	1.00	10.45
ATOM	12612	CD	PRO	1886	17.852	-23.290	22.533	1.00	10.25
ATOM	12613	CE	PRO	1886	18.808	-23.014	20.350	1.00	11.23
ATOM	12614	CF	PRO	1886	17.156	-21.158	20.331	1.00	11.55
ATOM	12615	CG	PRO	1886	17.487	-21.296	21.474	1.00	11.59
ATOM	12616	C	PRO	1886	19.819	-21.375	19.679	1.00	11.11
ATOM	12617	O	PRO	1886	20.818	-21.035	20.314	1.00	11.04
ATOM	12618	N	PHE	1887	19.682	-21.178	18.358	1.00	9.35
ATOM	12619	CA	PHE	1887	20.731	-21.578	17.517	1.00	10.68
ATOM	12620	CB	PHE	1887	20.117	-21.283	16.136	1.00	11.11
ATOM	12621	CG	PHE	1887	20.941	-21.130	15.237	1.00	11.67
ATOM	12622	CH1	PHE	1887	22.211	-20.793	14.856	1.00	11.73
ATOM	12623	CH2	PHE	1887	20.146	-19.110	14.896	1.00	11.62
ATOM	12624	CH1	PHE	1887	21.018	-19.971	14.057	1.00	11.72
ATOM	12625	CH2	PHE	1887	21.330	-19.123	14.090	1.00	11.51
ATOM	12626	CH3	PHE	1887	22.536	-19.315	13.479	1.00	11.64
ATOM	12627	O	PHE	1887	21.129	-20.311	16.757	1.00	11.86
ATOM	12628	O	PHE	1887	20.547	-19.415	18.547	1.00	9.44
ATOM	12629	N	MET	1888	22.614	-20.260	16.159	1.00	8.21
ATOM	12630	CA	MET	1888	23.375	-19.150	15.827	1.00	10.81
ATOM	12631	CB	MET	1888	21.120	-17.896	17.696	1.00	11.57
ATOM	12632	CG	MET	1888	24.388	-17.914	18.080	1.00	11.10
ATOM	12633	CH	MET	1888	26.011	-17.518	18.139	1.00	11.09
ATOM	12634	CH	MET	1888	26.079	-17.155	15.897	1.00	11.81
ATOM	12635	C	MET	1888	22.901	-18.758	20.157	1.00	11.89
ATOM	12636	O	MET	1888	23.911	-17.154	20.679	1.00	11.39
ATOM	12637	N	ALA	1889	27.448	-19.357	21.346	1.00	11.64
ATOM	12638	CA	ALA	1889	22.019	-19.471	21.541	1.00	11.51
ATOM	12639	CB	ALA	1889	20.807	-20.146	22.791	1.00	11.05
ATOM	12640	C	ALA	1889	23.200	-19.973	23.189	1.00	11.33
ATOM	12641	O	ALA	1889	23.067	-19.585	24.399	1.00	11.56
ATOM	12642	N	TYR	1890	24.365	-20.292	22.859	1.00	11.07
ATOM	12643	CA	TYR	1890	25.439	-20.654	23.707	1.00	12.50
ATOM	12644	CB	TYR	1890	25.378	-21.121	24.089	1.00	12.92
ATOM	12645	CG	TYR	1890	25.067	-20.060	22.939	1.00	11.64
ATOM	12646	CH1	TYR	1890	26.089	-21.716	27.159	1.00	11.95
ATOM	12647	CH2	TYR	1890	25.897	-21.579	21.197	1.00	11.46
ATOM	12648	CH2	TYR	1890	25.750	-21.288	22.537	1.00	11.15
ATOM	12649	CH2	TYR	1890	25.458	-24.156	21.471	1.00	11.84
ATOM	12650	CH3	TYR	1890	24.488	-24.788	20.609	1.00	11.93
ATOM	12651	OH	TYR	1890	24.208	-25.631	19.756	1.00	11.58
ATOM	12652	C	TYR	1890	26.743	-20.287	23.000	1.00	12.88
ATOM	12653	O	TYR	1890	27.716	-21.043	23.037	1.00	11.54
ATOM	12654	N	ALA	1891	26.741	-19.114	22.371	1.00	11.98
ATOM	12655	CA	ALA	1891	27.885	-18.600	21.618	1.00	11.09
ATOM	12656	CB	ALA	1891	27.472	-17.339	20.862	1.00	11.53

ATOM	12657	C	ALA	1991	29.160	-13.304	22.490	1.00	13.87
ATOM	12658	O	ALA	1991	30.231	-13.289	22.009	1.00	13.32
ATOM	12659	N	THR	1992	29.850	-13.054	23.769	1.00	13.24
ATOM	12660	CA	THR	1992	29.895	-13.794	24.737	1.00	12.21
ATOM	12661	CB	THR	1992	30.098	-13.284	25.011	1.00	11.96
ATOM	12662	CG1	THR	1992	29.268	-13.781	25.737	1.00	12.49
ATOM	12663	CG2	THR	1992	30.235	-13.514	27.709	1.00	13.36
ATOM	12664	C	THR	1992	29.449	-13.433	26.033	1.00	13.46
ATOM	12665	O	THR	1992	28.251	-13.666	26.231	1.00	14.38
ATOM	12666	N	PRO	1993	30.39	-13.731	26.932	1.00	14.40
ATOM	12667	CA	PRO	1993	31.862	-13.731	26.739	1.00	13.32
ATOM	12668	CB	PRO	1993	29.852	-13.334	27.136	1.00	13.16
ATOM	12669	CG	PRO	1993	31.316	-13.513	27.920	1.00	17.60
ATOM	12670	CG	PRO	1993	32.074	-13.783	27.800	1.00	15.21
ATOM	12671	C	PRO	1993	29.497	-13.441	27.531	1.00	13.95
ATOM	12672	O	PRO	1993	27.964	-13.913	26.415	1.00	11.45
ATOM	12673	N	GLU	1994	29.071	-13.143	28.934	1.00	15.13
ATOM	12674	CA	GLU	1994	28.374	-13.224	28.661	1.00	15.41
ATOM	12675	CB	GLU	1994	28.946	-13.803	29.664	1.00	19.41
ATOM	12676	CG	GLU	1994	28.133	-13.759	30.437	1.00	28.39
ATOM	12677	CD	GLU	1994	29.04	-13.721	31.046	1.00	32.14
ATOM	12678	OE1	GLU	1994	29.937	-13.323	30.334	1.00	34.50
ATOM	12679	OE2	GLU	1994	28.847	-13.379	31.113	1.00	37.27
ATOM	12680	C	GLU	1994	26.951	-13.261	29.111	1.00	14.63
ATOM	12681	O	GLU	1994	25.981	-13.257	29.369	1.00	14.66
ATOM	12682	N	GLN	1995	26.811	-13.807	27.777	1.00	13.17
ATOM	12683	CA	GLN	1995	25.471	-13.560	27.114	1.00	14.61
ATOM	12684	CB	GLN	1995	25.537	-13.123	25.675	1.00	18.45
ATOM	12685	CG	GLN	1995	26.047	-13.736	27.113	1.00	26.37
ATOM	12686	CD	GLN	1995	25.807	-13.441	26.735	1.00	30.60
ATOM	12687	OE1	GLN	1995	24.667	-13.596	23.689	1.00	35.03
ATOM	12688	OE2	GLN	1995	26.837	-11.338	27.117	1.00	35.19
ATOM	12689	C	GLN	1995	24.817	-13.704	27.445	1.00	14.14
ATOM	12690	O	GLN	1995	25.537	-13.731	27.663	1.00	12.43
ATOM	12691	N	ALA	1996	25.001	-13.731	27.115	1.00	11.13
ATOM	12692	CA	ALA	1996	25.023	-21.086	27.132	1.00	11.56
ATOM	12693	CB	ALA	1996	26.137	-21.143	27.172	1.00	11.03
ATOM	12694	C	ALA	1996	24.111	-21.111	23.113	1.00	11.53
ATOM	12695	O	ALA	1996	23.467	-21.733	23.117	1.00	11.46
ATOM	12696	N	PHE	1997	25.131	-13.473	27.114	1.00	10.77
ATOM	12697	CA	PHE	1997	24.111	-13.444	27.115	1.00	11.53
ATOM	12698	CB	PHE	1997	25.001	-13.414	27.115	1.00	9.99
ATOM	12699	CG	PHE	1997	25.111	-13.414	27.115	1.00	10.28
ATOM	12700	CD	PHE	1997	27.411	-21.444	27.115	1.00	17.24
ATOM	12701	OE1	PHE	1997	28.111	-13.111	27.115	1.00	9.95
ATOM	12702	OE2	PHE	1997	28.111	-21.873	27.116	1.00	12.57
ATOM	12703	CE	PHE	1997	29.411	-13.611	27.117	1.00	11.90
ATOM	12704	C7	PHE	1997	29.111	-13.954	27.119	1.00	13.96
ATOM	12705	O	PHE	1997	27.111	-13.611	27.117	1.00	11.72
ATOM	12706	O	PHE	1997	27.111	-13.343	27.112	1.00	10.78
ATOM	12707	N	GLU	1998	25.111	-17.666	27.116	1.00	11.55
ATOM	12708	CA	GLU	1998	21.111	-13.943	27.116	1.00	14.41
ATOM	12709	CB	GLU	1998	22.111	-13.556	27.114	1.00	17.46
ATOM	12710	CG	GLU	1998	20.111	-13.623	27.116	1.00	15.46
ATOM	12711	CD	GLU	1998	20.111	-13.611	27.114	1.00	14.90
ATOM	12712	OE1	GLU	1998	21.411	-13.111	27.112	1.00	11.39
ATOM	12713	OE2	GLU	1998	19.411	-13.111	27.115	1.00	14.77
ATOM	12714	C	GLU	1998	16.111	-17.666	27.112	1.00	12.46
ATOM	12715	O	GLU	1998	19.111	-17.792	27.113	1.00	11.48
ATOM	12716	N	ASN	1999	21.611	-18.273	27.112	1.00	12.32
ATOM	12717	CA	ASN	1999	19.611	-18.947	27.119	1.00	11.52
ATOM	12718	CB	ASN	1999	20.511	-19.064	27.119	1.00	12.87
ATOM	12719	CG	ASN	1999	20.411	-17.706	27.119	1.00	14.75
ATOM	12720	CD	ASN	1999	19.611	-16.777	27.111	1.00	10.94
ATOM	12721	NE	ASN	1999	21.411	-17.579	27.111	1.00	11.61
ATOM	12722	C	ASN	1999	19.611	-20.311	27.116	1.00	11.22
ATOM	12723	O	ASN	1999	13.511	-20.754	27.113	1.00	10.29
ATOM	12724	N	ALA	1900	20.611	-20.983	27.118	1.00	10.29
ATOM	12725	CA	ALA	1900	20.411	-22.271	27.117	1.00	9.38
ATOM	12726	CB	ALA	1900	21.711	-22.926	27.110	1.00	8.73
ATOM	12727	C	ALA	1900	19.511	-21.970	27.122	1.00	9.37
ATOM	12728	O	ALA	1900	18.511	-22.646	27.122	1.00	8.92
ATOM	12729	N	ALA	1901	19.908	-20.936	27.175	1.00	10.46
ATOM	12730	CA	ALA	1901	19.147	-20.551	27.158	1.00	9.71
ATOM	12731	CB	ALA	1901	19.748	-19.294	24.036	1.00	9.98
ATOM	12732	C	ALA	1901	17.486	-20.305	27.109	1.00	9.18
ATOM	12733	O	ALA	1901	16.783	-20.733	27.823	1.00	9.21

ATOM	12734	N	THR	1907	17.415	-19.601	37.007	1.00	21.83
ATOM	12735	CF	THR	1907	17.437	-19.293	37.158	1.00	19.13
ATOM	12736	CF	THR	1907	17.081	-18.483	36.279	1.00	16.21
ATOM	12737	CG1	THR	1907	16.814	-17.368	36.484	1.00	16.06
ATOM	12738	CG2	THR	1907	14.647	-16.117	36.878	1.00	16.27
ATOM	12739	O	THR	1907	15.784	-20.549	31.403	1.00	16.35
ATOM	12740	O	THR	1907	14.136	-20.659	31.941	1.00	16.19
ATOM	12741	N	VAL	1908	15.801	-21.159	39.855	1.00	16.07
ATOM	12742	CA	VAL	1908	15.052	-22.723	30.410	1.00	12.02
ATOM	12743	CE	VAL	1908	15.639	-23.479	29.168	1.00	11.59
ATOM	12744	CG1	VAL	1908	16.917	-24.192	29.494	1.00	12.92
ATOM	12745	CG2	VAL	1908	14.577	-24.403	28.632	1.00	11.81
ATOM	12746	O	VAL	1908	14.347	-23.657	31.338	1.00	12.38
ATOM	12747	O	VAL	1908	13.961	-24.369	31.787	1.00	9.04
ATOM	12748	N	MET	1908	15.961	-23.943	32.578	1.00	13.00
ATOM	12749	CA	MET	1908	15.843	-24.751	33.776	1.00	11.10
ATOM	12750	CE	MET	1908	17.273	-24.428	34.444	1.00	12.49
ATOM	12751	CG	MET	1908	18.207	-25.081	33.999	1.00	12.01
ATOM	12752	SD	MET	1908	18.226	-26.845	33.611	1.00	19.52
ATOM	12753	CE	MET	1908	18.566	-27.204	35.406	1.00	18.10
ATOM	12754	O	MET	1908	14.816	-23.743	34.761	1.00	9.96
ATOM	12755	O	MET	1908	14.108	-24.479	35.422	1.00	11.43
ATOM	12756	N	ARG	1905	14.770	-22.412	34.860	1.00	8.90
ATOM	12757	CA	ARG	1905	13.739	-21.809	35.715	1.00	8.03
ATOM	12758	CB	ARG	1905	13.982	-20.295	35.901	1.00	8.24
ATOM	12759	CG	ARG	1905	15.331	-19.885	36.473	1.00	12.25
ATOM	12760	CD	ARG	1905	15.304	-18.465	37.003	1.00	11.94
ATOM	12761	NE	ARG	1905	16.652	-17.990	37.289	1.00	15.25
ATOM	12762	CZ	ARG	1905	17.447	-17.416	36.381	1.00	13.90
ATOM	12763	NH1	ARG	1905	17.029	-17.233	35.149	1.00	14.60
ATOM	12764	NH2	ARG	1905	18.677	-17.063	36.733	1.00	17.42
ATOM	12765	C	ARG	1905	12.398	-22.099	35.357	1.00	8.53
ATOM	12766	O	ARG	1905	11.445	-22.195	36.024	1.00	10.47
ATOM	12767	N	ALA	1906	13.291	-22.274	33.946	1.00	8.56
ATOM	12768	CA	ALA	1906	11.011	-22.538	33.317	1.00	8.67
ATOM	12769	CB	ALA	1906	11.100	-22.235	32.814	1.00	9.41
ATOM	12770	C	ALA	1906	11.511	-23.963	33.535	1.00	10.77
ATOM	12771	O	ALA	1906	16.251	-24.270	33.250	1.00	10.26
ATOM	12772	N	ILE	1907	11.382	-24.841	34.018	1.00	16.00
ATOM	12773	CA	ILE	1907	11.842	-26.209	34.291	1.00	9.93
ATOM	12774	C	ILE	1907	11.989	-27.339	33.869	1.00	12.15
ATOM	12775	O	ILE	1907	11.684	-28.485	34.361	1.00	11.23
ATOM	12776	N	ALA	1908	12.607	-27.009	33.681	1.00	11.34
ATOM	12777	CA	ALA	1908	13.851	-28.026	32.612	1.00	11.08
ATOM	12778	CB	ALA	1908	14.702	-27.455	32.475	1.00	16.75
ATOM	12779	C	ALA	1908	14.258	-29.529	33.739	1.00	11.38
ATOM	12780	O	ALA	1908	14.355	-29.848	34.747	1.00	8.45
ATOM	12781	N	ASN	1909	15.373	-29.709	33.567	1.00	11.47
ATOM	12782	CA	ASN	1909	16.205	-30.302	34.564	1.00	19.53
ATOM	12783	CB	ASN	1909	15.744	-31.727	34.438	1.00	13.90
ATOM	12784	CG	ASN	1909	14.432	-31.812	35.596	1.00	14.93
ATOM	12785	OD1	ASN	1909	14.140	-31.192	36.589	1.00	14.28
ATOM	12786	ND2	ASN	1909	14.807	-32.593	34.428	1.00	16.46
ATOM	12787	C	ASN	1909	15.593	-30.385	33.970	1.00	11.82
ATOM	12788	O	ASN	1909	16.579	-33.566	34.682	1.00	13.44
ATOM	12789	N	MET	1910	17.620	-33.183	32.653	1.00	19.67
ATOM	12790	CA	MET	1910	18.634	-33.391	31.980	1.00	11.33
ATOM	12791	CB	MET	1910	19.138	-33.888	31.799	1.00	11.33
ATOM	12792	CG	MET	1910	20.340	-32.264	30.850	1.00	13.81
ATOM	12793	SD	MET	1910	20.549	-34.076	30.827	1.00	17.86
ATOM	12794	CE	MET	1910	21.687	-34.311	32.927	1.00	18.58
ATOM	12795	C	MET	1910	19.822	-29.716	30.601	1.00	10.32
ATOM	12796	O	MET	1910	17.730	-29.632	30.036	1.00	10.64
ATOM	12797	N	VAL	1911	19.941	-29.333	30.936	1.00	9.77
ATOM	12798	CA	VAL	1911	19.942	-28.561	28.731	1.00	10.49
ATOM	12799	CB	VAL	1911	20.552	-27.149	28.934	1.00	14.32
ATOM	12800	CG1	VAL	1911	20.925	-26.477	27.563	1.00	20.77
ATOM	12801	CG2	VAL	1911	19.784	-26.322	29.924	1.00	16.29
ATOM	12802	C	VAL	1911	20.752	-29.368	27.732	1.00	11.18
ATOM	12803	O	VAL	1911	21.758	-29.989	28.123	1.00	12.97
ATOM	12804	N	LYS	1912	20.304	-29.364	26.535	1.00	11.26
ATOM	12805	CA	LYS	1912	21.019	-30.082	25.480	1.00	11.63
ATOM	12806	CB	LYS	1912	20.088	-30.999	24.712	1.00	11.49
ATOM	12807	CG	LYS	1912	20.806	-31.774	23.593	1.00	13.76
ATOM	12808	CD	LYS	1912	20.027	-33.015	23.160	1.00	15.10
ATOM	12809	CE	LYS	1912	18.742	-33.667	22.415	1.00	17.50
ATOM	12810	NZ	LYS	1912	18.980	-32.003	21.696	1.00	18.50

ATOM	12411	O	LYS	1912	21.607	-29.637	24.522	1.00	19.56
ATOM	12412	O	LYS	1912	20.522	-28.977	24.128	1.00	12.27
ATOM	12413	N	ILE	1913	22.625	-29.308	24.162	1.00	11.16
ATOM	12414	CA	ILE	1913	23.165	-28.361	23.260	1.00	14.22
ATOM	12415	CB	ILE	1913	24.541	-27.335	24.614	1.00	16.27
ATOM	12416	CG2	ILE	1913	25.758	-26.374	24.812	1.00	17.84
ATOM	12417	CG1	ILE	1913	25.463	-28.206	24.911	1.00	18.46
ATOM	12418	CD1	ILE	1913	26.425	-27.376	25.716	1.00	19.67
ATOM	12419	C	ILE	1913	24.335	-29.121	22.211	1.00	15.17
ATOM	12420	O	ILE	1913	24.929	-29.149	22.563	1.00	15.09
ATOM	12421	N	GLU	1913	24.324	-18.671	20.933	1.00	15.40
ATOM	12422	CA	GLU	1913	25.203	-1.9192	19.813	1.00	16.14
ATOM	12423	CB	GLU	1913	24.325	-1.9192	18.582	1.00	17.24
ATOM	12424	CG	GLU	1913	22.309	-1.9426	18.715	1.00	20.23
ATOM	12425	CD	GLU	1913	21.387	-1.9491	17.097	1.00	23.35
ATOM	12426	CE1	GLU	1913	22.415	-1.8663	16.411	1.00	24.15
ATOM	12427	CE2	GLU	1913	20.967	-1.6120	15.211	1.00	31.69
ATOM	12428	C	GLU	1913	26.411	-1.8183	19.611	1.00	17.38
ATOM	12429	O	GLU	1913	26.670	-1.7636	19.463	1.00	14.70
ATOM	12430	N	GLY	1913	27.371	-1.9105	19.511	1.00	16.46
ATOM	12431	CA	GLY	1913	28.316	-1.9179	19.385	1.00	18.17
ATOM	12432	C	GLY	1913	29.383	-1.9155	19.729	1.00	21.08
ATOM	12433	O	GLY	1913	29.437	-1.2103	20.811	1.00	21.39
ATOM	12434	N	GLY	1913	30.939	-10.223	19.244	1.00	23.31
ATOM	12435	CA	GLY	1913	32.086	-11.091	19.662	1.00	27.00
ATOM	12436	C	GLY	1913	32.949	-30.518	20.563	1.00	22.33
ATOM	12437	O	GLY	1913	32.449	-29.836	21.365	1.00	21.23
ATOM	12438	N	GLU	1913	34.238	-30.720	23.611	1.00	22.96
ATOM	12439	CA	GLU	1913	35.118	-30.237	21.872	1.00	22.46
ATOM	12440	CB	GLU	1913	36.608	-30.631	21.278	1.00	26.72
ATOM	12441	CG	GLU	1913	36.929	-32.014	22.611	1.00	33.75
ATOM	12442	CD	GLU	1913	36.367	-32.037	22.474	1.00	31.37
ATOM	12443	CE1	GLU	1913	38.718	-31.190	23.211	1.00	31.45
ATOM	12444	CE2	GLU	1913	39.067	-33.048	22.111	1.00	39.06
ATOM	12445	C	GLU	1913	35.189	-28.738	21.944	1.00	19.95
ATOM	12446	O	GLU	1913	35.694	-28.124	22.611	1.00	18.13
ATOM	12447	N	TRP	1918	34.747	-27.920	22.991	1.00	18.83
ATOM	12448	CA	TRP	1918	34.711	-24.431	21.211	1.00	16.44
ATOM	12449	CB	TRP	1918	34.372	-24.430	21.111	1.00	16.23
ATOM	12450	CG	TRP	1918	32.918	-25.791	19.811	1.00	17.75
ATOM	12451	CD2	TRP	1918	31.940	-24.591	19.621	1.00	17.59
ATOM	12452	CD1	TRP	1918	30.728	-25.191	19.211	1.00	16.90
ATOM	12453	CE3	TRP	1918	31.910	-25.499	21.631	1.00	17.16
ATOM	12454	CD1	TRP	1918	32.275	-26.655	17.811	1.00	13.69
ATOM	12455	NE1	TRP	1918	30.960	-26.100	17.691	1.00	17.49
ATOM	12456	CD2	TRP	1918	29.514	-24.145	19.411	1.00	14.06
ATOM	12457	CD3	TRP	1918	30.862	-22.739	20.111	1.00	17.47
ATOM	12458	CE2	TRP	1918	23.607	-27.171	20.111	1.00	17.12
ATOM	12459	C	TRP	1918	33.804	-21.131	21.411	1.00	15.91
ATOM	12460	O	TRP	1918	34.344	-21.071	21.611	1.00	15.31
ATOM	12461	N	LEU	1919	22.944	-21.011	21.711	1.00	14.71
ATOM	12462	CA	LEU	1919	22.621	-26.161	23.111	1.00	14.76
ATOM	12463	CB	LEU	1919	20.681	-25.414	21.611	1.00	14.15
ATOM	12464	CG	LEU	1919	19.818	-26.866	22.111	1.00	17.11
ATOM	12465	CD1	LEU	1919	18.519	-27.719	21.111	1.00	18.09
ATOM	12466	CD2	LEU	1919	19.411	-25.911	21.111	1.00	16.88
ATOM	12467	C	LEU	1919	22.111	-27.111	21.111	1.00	14.85
ATOM	12468	O	LEU	1919	17.896	-26.911	20.111	1.00	12.17
ATOM	12469	N	VAL	1920	33.667	-27.611	21.211	1.00	14.61
ATOM	12470	CA	VAL	1920	34.189	-27.146	26.111	1.00	15.42
ATOM	12471	CB	VAL	1920	35.582	-26.098	26.271	1.00	16.95
ATOM	12472	CG1	VAL	1920	36.362	-29.125	27.111	1.00	16.97
ATOM	12473	CG2	VAL	1920	35.425	-30.389	27.761	1.00	16.13
ATOM	12474	C	VAL	1920	34.216	-27.366	27.761	1.00	16.97
ATOM	12475	O	VAL	1920	33.718	-27.661	28.809	1.00	15.60
ATOM	12476	N	GLU	1921	34.717	-26.131	23.441	1.00	15.79
ATOM	12477	CA	GLU	1921	34.785	-25.141	24.347	1.00	16.09
ATOM	12478	CB	GLU	1921	35.480	-23.838	21.941	1.00	18.14
ATOM	12479	CG	GLU	1921	35.428	-22.701	22.649	1.00	21.14
ATOM	12480	CD	GLU	1921	36.271	-21.511	21.514	1.00	21.12
ATOM	12481	CE1	GLU	1921	36.105	-21.136	22.214	1.00	24.39
ATOM	12482	CE2	GLU	1921	37.104	-21.045	24.177	1.00	30.38
ATOM	12483	C	GLU	1921	33.373	-24.786	25.935	1.00	15.64
ATOM	12484	O	GLU	1921	33.095	-24.656	30.128	1.00	14.95
ATOM	12485	N	THR	1922	32.478	-24.621	22.971	1.00	16.48
ATOM	12486	CA	THR	1922	31.102	-24.268	28.289	1.00	15.13
ATOM	12487	CB	THR	1922	30.285	-24.674	27.017	1.00	14.39

ATOM	12888	CG1	THR	1922	29.846	-22.893	28.165	1.00	14.42
ATOM	12889	CG2	THR	1922	28.844	-23.753	27.154	1.00	14.45
ATOM	12890	C	THR	1922	30.439	-25.321	29.161	1.00	14.15
ATOM	12891	O	THR	1922	29.259	-24.990	30.136	1.00	14.84
ATOM	12892	N	VAL	1923	29.640	-26.599	28.315	1.00	14.02
ATOM	12893	CA	VAL	1923	30.643	-27.471	29.190	1.00	14.28
ATOM	12894	CB	VAL	1923	30.288	-28.639	28.711	1.00	14.90
ATOM	12895	CG1	VAL	1923	29.870	-29.171	29.818	1.00	14.64
ATOM	12896	CG2	VAL	1923	29.532	-29.030	29.384	1.00	14.39
ATOM	12897	C	VAL	1923	30.631	-27.437	31.106	1.00	15.48
ATOM	12898	O	VAL	1923	29.863	-27.755	31.382	1.00	15.81
ATOM	12899	N	ILE	1924	31.943	-27.534	31.139	1.00	15.37
ATOM	12900	CA	ILE	1924	32.566	-27.606	32.434	1.00	17.25
ATOM	12901	CB	ILE	1924	34.033	-27.359	32.110	1.00	19.46
ATOM	12902	CG	ILE	1924	34.796	-28.433	31.507	1.00	23.81
ATOM	12903	CD	ILE	1924	36.336	-28.325	31.344	1.00	28.38
ATOM	12904	OE1	ILE	1924	36.773	-27.129	31.054	1.00	27.54
ATOM	12905	NE2	ILE	1924	37.063	-29.133	31.175	1.00	38.43
ATOM	12906	C	ILE	1924	37.966	-26.527	32.544	1.00	16.21
ATOM	12907	O	ILE	1924	37.576	-26.811	33.476	1.00	18.27
ATOM	12908	N	MET	1925	37.831	-25.299	32.343	1.00	15.24
ATOM	12909	CA	MET	1925	37.336	-24.138	33.324	1.00	14.73
ATOM	12910	CB	MET	1925	37.634	-22.875	32.321	1.00	17.14
ATOM	12911	CG	MET	1925	38.189	-22.574	32.914	1.00	17.57
ATOM	12912	CD	MET	1925	38.519	-21.081	31.380	1.00	19.95
ATOM	12913	CE	MET	1925	37.411	-19.842	31.196	1.00	22.55
ATOM	12914	C	MET	1925	38.871	-24.267	33.344	1.00	15.19
ATOM	12915	O	MET	1925	38.457	-23.902	33.944	1.00	17.00
ATOM	12916	N	LEU	1926	38.073	-24.735	32.995	1.00	15.48
ATOM	12917	CA	LEU	1926	37.633	-24.863	33.240	1.00	14.38
ATOM	12918	CB	LEU	1926	38.931	-25.438	31.389	1.00	12.37
ATOM	12919	CG	LEU	1926	38.531	-24.368	30.344	1.00	10.67
ATOM	12920	CD1	LEU	1926	38.009	-25.077	29.631	1.00	10.46
ATOM	12921	CD2	LEU	1926	37.321	-23.570	31.450	1.00	11.81
ATOM	12922	C	LEU	1926	37.338	-25.821	34.191	1.00	15.75
ATOM	12923	O	LEU	1926	37.603	-25.141	35.196	1.00	14.86
ATOM	12924	N	THR	1927	37.081	-26.973	34.348	1.00	17.80
ATOM	12925	CA	THR	1927	37.891	-27.381	35.365	1.00	19.31
ATOM	12926	CB	THR	1927	38.733	-29.236	33.074	1.00	22.11
ATOM	12927	CG1	THR	1927	38.211	-28.851	33.871	1.00	23.98
ATOM	12928	CG2	THR	1927	38.651	-30.241	33.219	1.00	26.30
ATOM	12929	C	THR	1927	38.221	-27.471	36.780	1.00	20.67
ATOM	12930	O	THR	1927	37.481	-27.333	37.711	1.00	19.81
ATOM	12931	N	GLU	1928	38.332	-26.741	36.326	1.00	19.57
ATOM	12932	CA	GLU	1928	38.633	-26.217	36.254	1.00	20.59
ATOM	12933	CB	GLU	1928	37.087	-25.516	36.340	1.00	23.61
ATOM	12934	CG	GLU	1928	37.583	-24.901	35.177	1.00	24.98
ATOM	12935	CD	GLU	1928	37.961	-24.373	35.373	1.00	25.34
ATOM	12936	OE1	GLU	1928	37.813	-25.697	35.487	1.00	28.59
ATOM	12937	OE2	GLU	1928	37.137	-23.253	36.410	1.00	24.69
ATOM	12938	C	GLU	1928	38.643	-25.101	38.349	1.00	19.64
ATOM	12939	O	GLU	1928	37.513	-24.801	39.433	1.00	20.05
ATOM	12940	N	ARG	1929	37.943	-24.513	37.833	1.00	18.54
ATOM	12941	CA	ARG	1929	38.933	-23.536	36.943	1.00	15.90
ATOM	12942	CB	ARG	1929	39.003	-22.428	36.901	1.00	15.47
ATOM	12943	CG	ARG	1929	38.271	-21.543	35.391	1.00	14.86
ATOM	12944	CD	ARG	1929	38.533	-20.893	35.883	1.00	16.91
ATOM	12945	NE	ARG	1929	38.283	-19.958	36.301	1.00	15.60
ATOM	12946	C2	ARG	1929	37.971	-19.133	36.251	1.00	17.41
ATOM	12947	NE1	ARG	1929	37.081	-21.853	36.183	1.00	20.43
ATOM	12948	NE2	ARG	1929	37.053	-19.786	36.413	1.00	19.19
ATOM	12949	C	ARG	1929	38.551	-24.133	38.631	1.00	16.00
ATOM	12950	O	ARG	1929	38.523	-23.487	39.724	1.00	15.35
ATOM	12951	N	ALA	1930	38.491	-25.198	38.446	1.00	15.36
ATOM	12952	CA	ALA	1930	38.261	-26.151	38.854	1.00	14.07
ATOM	12953	CB	ALA	1930	37.363	-25.171	38.645	1.00	17.52
ATOM	12954	C	ALA	1930	38.431	-26.611	35.475	1.00	14.90
ATOM	12955	O	ALA	1930	37.301	-27.051	37.655	1.00	12.87
ATOM	12956	N	VAL	1931	38.973	-26.513	36.360	1.00	15.15
ATOM	12957	CA	VAL	1931	38.213	-26.943	35.100	1.00	13.22
ATOM	12958	CB	VAL	1931	38.220	-25.876	35.974	1.00	14.49
ATOM	12959	CG1	VAL	1931	38.321	-26.323	36.829	1.00	11.71
ATOM	12960	CG2	VAL	1931	38.746	-24.133	34.922	1.00	14.16
ATOM	12961	C	VAL	1931	38.751	-28.233	34.492	1.00	13.32
ATOM	12962	O	VAL	1931	38.901	-28.296	34.946	1.00	13.87
ATOM	12963	N	PRO	1932	38.940	-29.503	34.502	1.00	13.80
ATOM	12964	CD	PRO	1932	37.715	-29.506	35.230	1.00	14.21

ATOM	12965	CA	PRO	1937	22.485	-30.587	23.928	1.00	13.42
ATOM	12966	CB	PRO	1937	22.396	-31.596	24.437	1.00	13.25
ATOM	12967	CG	PRO	1937	21.179	-36.791	24.812	1.00	20.63
ATOM	12968	C	PRO	1937	22.210	-30.391	22.196	1.00	11.97
ATOM	12969	O	PRO	1937	22.141	-29.713	21.337	1.00	12.08
ATOM	12970	N	VAL	1933	24.129	-31.012	21.669	1.00	11.35
ATOM	12971	CA	VAL	1933	24.170	-30.369	20.118	1.00	11.25
ATOM	12972	CB	VAL	1933	25.173	-30.149	20.093	1.00	12.56
ATOM	12973	CG1	VAL	1933	25.176	-30.079	28.180	1.00	10.86
ATOM	12974	CG2	VAL	1933	25.634	-29.768	30.411	1.00	10.60
ATOM	12975	C	VAL	1933	24.101	-32.194	23.474	1.00	13.16
ATOM	12976	O	VAL	1933	24.150	-33.173	23.353	1.00	12.41
ATOM	12977	N	CYS	1934	21.417	-33.213	25.411	1.00	11.26
ATOM	12978	CA	CYS	1934	21.196	-33.394	27.374	1.00	11.62
ATOM	12979	CB	CYS	1934	21.621	-33.683	23.171	1.00	11.90
ATOM	12980	CG	CYS	1934	21.573	-33.037	23.338	1.00	13.45
ATOM	12981	C	CYS	1934	24.031	-32.393	26.101	1.00	13.27
ATOM	12982	O	CYS	1934	23.377	-32.323	25.139	1.00	12.86
ATOM	12983	N	GLY	1935	24.978	-33.313	21.871	1.00	12.09
ATOM	12984	CA	GLY	1935	21.101	-33.511	24.433	1.00	10.39
ATOM	12985	C	GLY	1935	23.876	-33.961	21.375	1.00	11.98
ATOM	12986	O	GLY	1935	23.843	-34.627	21.654	1.00	12.33
ATOM	12987	N	HIS	1936	23.301	-33.601	23.172	1.00	10.45
ATOM	12988	CA	HIS	1936	24.181	-33.953	21.654	1.00	13.34
ATOM	12989	CB	HIS	1936	23.451	-33.343	20.813	1.00	13.51
ATOM	12990	CG	HIS	1936	22.547	-33.223	19.669	1.00	16.35
ATOM	12991	CD2	HIS	1936	23.121	-34.033	18.393	1.00	17.35
ATOM	12992	ND1	HIS	1936	21.197	-32.713	19.522	1.00	13.16
ATOM	12993	CE1	HIS	1936	20.743	-33.133	18.406	1.00	17.31
ATOM	12994	HE2	HIS	1936	21.589	-33.336	17.821	1.00	19.02
ATOM	12995	C	HIS	1936	23.568	-33.333	19.889	1.00	12.31
ATOM	12996	O	HIS	1936	23.069	-32.933	19.460	1.00	12.89
ATOM	12997	N	LEU	1937	23.821	-35.176	19.182	1.00	13.16
ATOM	12998	CA	LEU	1937	23.151	-35.334	18.787	1.00	12.34
ATOM	12999	CB	LEU	1937	23.594	-36.137	18.197	1.00	12.68
ATOM	13000	CG	LEU	1937	23.883	-36.136	18.384	1.00	13.13
ATOM	13001	CD1	LEU	1937	23.914	-36.133	20.195	1.00	13.18
ATOM	13002	CD2	LEU	1937	23.448	-34.233	19.139	1.00	12.64
ATOM	13003	C	LEU	1937	23.141	-36.137	17.123	1.00	14.83
ATOM	13004	O	LEU	1937	23.101	-36.733	17.174	1.00	12.98
ATOM	13005	N	GLY	1938	23.530	-35.033	18.571	1.00	16.33
ATOM	13006	CA	GLY	1938	23.183	-36.719	14.190	1.00	27.86
ATOM	13007	C	GLY	1938	23.111	-35.633	13.854	1.00	23.34
ATOM	13008	O	GLY	1938	23.441	-34.743	13.466	1.00	27.82
ATOM	13009	N	LEU	1939	24.438	-33.333	13.504	1.00	30.33
ATOM	13010	CA	LEU	1939	23.760	-34.339	12.611	1.00	34.11
ATOM	13011	CB	LEU	1939	23.714	-33.633	11.786	1.00	35.81
ATOM	13012	CG	LEU	1939	23.629	-34.333	13.615	1.00	37.63
ATOM	13013	CD1	LEU	1939	23.400	-33.633	13.722	1.00	38.30
ATOM	13014	CD2	LEU	1939	23.673	-33.333	11.127	1.00	35.31
ATOM	13015	C	LEU	1939	23.116	-33.733	11.420	1.00	36.16
ATOM	13016	O	LEU	1939	23.114	-33.433	14.101	1.00	37.11
ATOM	13017	N	THR	1940	23.700	-32.536	11.143	1.00	38.68
ATOM	13018	CA	THR	1940	23.130	-32.417	14.576	1.00	43.34
ATOM	13019	CB	THR	1940	24.137	-30.633	14.191	1.00	40.55
ATOM	13020	CG1	THR	1940	23.136	-30.133	13.823	1.00	35.39
ATOM	13021	CG2	THR	1940	24.887	-29.533	11.934	1.00	41.32
ATOM	13022	C	THR	1940	23.490	-30.137	13.124	1.00	41.11
ATOM	13023	O	THR	1940	23.139	-30.714	11.379	1.00	42.38
ATOM	13024	N	PRO	1941	21.143	-30.133	13.152	1.00	42.67
ATOM	13025	CA	PRO	1941	20.194	-31.233	11.641	1.00	43.13
ATOM	13026	CB	PRO	1941	20.137	-29.558	13.197	1.00	42.02
ATOM	13027	CG	PRO	1941	18.801	-29.337	13.615	1.00	42.58
ATOM	13028	CG	PRO	1941	18.991	-30.434	14.019	1.00	44.33
ATOM	13029	C	PRO	1941	20.349	-33.233	12.386	1.00	41.54
ATOM	13030	O	PRO	1941	20.198	-27.233	11.611	1.00	41.77
ATOM	13031	N	GLN	1942	21.121	-27.563	13.619	1.00	40.66
ATOM	13032	CA	GLN	1942	21.376	-26.243	13.837	1.00	40.39
ATOM	13033	CB	GLN	1942	21.303	-26.012	15.507	1.00	39.37
ATOM	13034	CG	GLN	1942	20.658	-25.673	16.214	1.00	8.76
ATOM	13035	CD	GLN	1942	21.086	-25.670	17.701	1.00	8.71
ATOM	13036	CE1	GLN	1942	22.091	-24.933	18.053	1.00	35.82
ATOM	13037	NE2	GLN	1942	20.316	-26.234	18.559	1.00	36.70
ATOM	13038	C	GLN	1942	22.450	-25.732	12.966	1.00	40.11
ATOM	13039	O	GLN	1942	22.541	-24.519	12.660	1.00	39.36
ATOM	13040	N	SEP	1943	23.256	-26.677	12.377	1.00	40.02
ATOM	13041	CA	SEP	1943	24.329	-26.281	11.443	1.00	39.90

ATOM	13042	CB	SER	1943	25.137	-26.959	11.861	1.00	43.13
ATOM	13043	CB	SER	1943	25.139	-26.959	13.195	1.00	42.60
ATOM	13044	CB	SER	1943	24.978	-26.703	10.917	1.00	39.67
ATOM	13045	CB	SER	1943	24.864	-26.933	9.194	1.00	38.51
ATOM	13046	N	VAL	1944	22.682	-26.805	9.774	1.00	40.21
ATOM	13047	CA	VAL	1944	22.109	-27.205	8.411	1.00	43.13
ATOM	13048	CB	VAL	1944	20.660	-27.155	8.335	1.00	43.81
ATOM	13049	CG1	VAL	1944	20.160	-28.783	8.608	1.00	46.25
ATOM	13050	CG2	VAL	1944	20.196	-27.547	8.936	1.00	40.12
ATOM	13051	C	VAL	1944	22.794	-26.352	8.204	1.00	40.09
ATOM	13052	O	VAL	1944	23.178	-26.873	8.236	1.00	40.03
ATOM	13052	N	A-N	1945	22.862	-25.043	8.531	1.00	40.77
ATOM	13054	CA	A-N	1945	22.397	-24.128	8.408	1.00	42.02
ATOM	13055	CB	A-N	1945	22.120	-22.681	8.911	1.00	39.36
ATOM	13056	CG	A-N	1945	21.634	-22.388	8.018	1.00	38.68
ATOM	13057	CG1	A-N	1945	22.065	-22.433	8.035	1.00	38.53
ATOM	13058	ND2	A-N	1945	21.176	-22.102	8.244	1.00	34.93
ATOM	13059	C	A-N	1945	24.193	-24.136	8.202	1.00	43.74
ATOM	13060	O	A-N	1945	25.413	-24.102	8.200	1.00	43.69
ATOM	13061	N	ILE	1946	25.139	-24.174	8.344	1.00	46.06
ATOM	13062	CA	ILE	1946	27.014	-25.014	8.235	1.00	48.85
ATOM	13063	CB	ILE	1946	27.190	-25.187	8.604	1.00	48.09
ATOM	13063	CG2	ILE	1946	29.844	-25.823	8.537	1.00	48.67
ATOM	13063	CG1	ILE	1946	27.476	-24.188	9.639	1.00	47.10
ATOM	13066	CD1	ILE	1946	28.919	-22.934	9.233	1.00	47.47
ATOM	13067	C	ILE	1946	27.194	-26.176	8.336	1.00	51.55
ATOM	13068	O	ILE	1946	27.949	-26.001	8.207	1.00	51.88
ATOM	13068	N	PHE	1947	26.188	-27.334	8.666	1.00	54.57
ATOM	13071	CA	PHE	1947	26.970	-28.551	8.835	1.00	57.12
ATOM	13071	CB	PHE	1947	26.427	-29.770	8.635	1.00	59.02
ATOM	13072	CG	PHE	1947	27.106	-30.023	8.934	1.00	61.39
ATOM	13073	CD1	PHE	1947	28.390	-30.344	8.969	1.00	61.43
ATOM	13074	CD2	PHE	1947	26.461	-29.126	8.111	1.00	61.93
ATOM	13074	CE1	PHE	1947	29.036	-20.767	8.109	1.00	62.57
ATOM	13074	CE2	PHE	1947	27.060	-29.945	10.345	1.00	62.58
ATOM	13075	C2	PHE	1947	28.180	-30.467	10.339	1.00	61.90
ATOM	13075	C	PHE	1947	26.160	-28.407	8.514	1.00	58.09
ATOM	13077	O	PHE	1947	26.884	-28.505	8.475	1.00	58.24
ATOM	13081	N	GLY	1948	24.954	-28.159	8.506	1.00	58.06
ATOM	13081	CA	GLY	1948	24.180	-28.015	8.349	1.00	58.62
ATOM	13082	C	GLY	1948	27.861	-28.561	8.470	1.00	58.00
ATOM	13083	O	GLY	1948	27.884	-28.543	8.438	1.00	58.82
ATOM	13083	N	GLY	1949	22.011	-29.423	8.537	1.00	59.35
ATOM	13083	CA	GLY	1949	21.381	-30.163	8.701	1.00	60.55
ATOM	13083	C	GLY	1949	21.459	-31.129	8.800	1.00	61.51
ATOM	13083	O	GLY	1949	22.028	-30.801	8.934	1.00	61.37
ATOM	13083	N	TYR	1950	24.185	-31.315	8.605	1.00	60.15
ATOM	13090	CA	TYR	1950	26.108	-31.337	8.335	1.00	62.56
ATOM	13090	CB	TYR	1950	19.124	-33.419	8.400	1.00	63.27
ATOM	13091	CG	TYR	1950	18.190	-31.073	8.306	1.00	63.93
ATOM	13090	CD1	TYR	1950	16.118	-31.166	8.732	1.00	64.37
ATOM	13090	CE1	TYR	1950	17.051	-30.124	8.935	1.00	64.00
ATOM	13090	CG2	TYR	1950	18.987	-31.301	8.935	1.00	64.13
ATOM	13090	CE2	TYR	1950	18.098	-30.158	8.209	1.00	64.47
ATOM	13090	CF	TYR	1950	17.741	-29.876	8.235	1.00	65.14
ATOM	13090	CB	TYR	1950	17.068	-30.847	8.337	1.00	65.11
ATOM	13090	C	TYR	1950	21.163	-34.103	8.103	1.00	63.54
ATOM	13090	O	TYR	1950	20.315	-35.171	8.331	1.00	62.37
ATOM	13100	N	LYS	1951	22.422	-35.423	8.504	1.00	62.40
ATOM	13101	CA	LYS	1951	22.898	-36.517	8.601	1.00	62.04
ATOM	13103	CB	LYS	1951	20.874	-36.315	8.919	1.00	62.86
ATOM	13103	CG	LYS	1951	21.160	-35.611	8.721	1.00	64.49
ATOM	13103	CD	LYS	1951	24.300	-35.241	8.648	1.00	65.92
ATOM	13103	CE	LYS	1951	22.082	-34.471	8.532	1.00	66.41
ATOM	13104	NZ	LYS	1951	24.109	-35.991	8.560	1.00	67.31
ATOM	13105	C	LYS	1951	24.179	-37.316	8.140	1.00	60.35
ATOM	13105	O	LYS	1951	24.118	-36.555	8.145	1.00	60.94
ATOM	13105	N	VAL	1952	22.059	-38.630	8.949	1.00	58.89
ATOM	13110	CA	VAL	1952	24.384	-39.511	8.979	1.00	57.24
ATOM	13111	CB	VAL	1952	24.187	-40.975	8.441	1.00	57.00
ATOM	13111	CG1	VAL	1952	24.013	-41.875	8.545	1.00	57.69
ATOM	13111	CG2	VAL	1952	22.868	-41.422	8.344	1.00	56.86
ATOM	13113	C	VAL	1952	25.722	-39.079	8.243	1.00	56.27
ATOM	13113	O	VAL	1952	26.011	-38.917	7.313	1.00	55.83
ATOM	13113	N	GLN	1953	26.055	-38.898	9.517	1.00	54.84
ATOM	13113	CA	GLN	1953	27.095	-38.479	9.907	1.00	53.67
ATOM	13113	CB	GLN	1953	27.303	-37.270	10.841	1.00	53.90

ATOM	18119	CG	GLN	1959	28.181	-39.154	11.183	1.00	55.91
ATOM	18120	CD	GLN	1959	28.182	-39.154	8.820	1.00	56.76
ATOM	18121	OE1	GLN	1959	28.182	-39.154	8.174	1.00	55.89
ATOM	18122	NE2	GLN	1959	28.182	-39.154	9.463	1.00	56.77
ATOM	18123	C	GLN	1959	28.182	-39.154	10.600	1.00	52.67
ATOM	18124	O	GLN	1959	28.182	-39.154	11.110	1.00	52.18
ATOM	18125	N	GLY	1959	28.466	-40.598	10.596	1.00	51.90
ATOM	18126	CA	GLY	1959	28.466	-40.598	11.236	1.00	51.94
ATOM	18127	C	GLY	1959	28.855	-41.691	10.166	1.00	51.75
ATOM	18128	O	GLY	1959	31.612	-42.498	10.664	1.00	51.15
ATOM	18129	N	ARG	1959	32.314	-41.462	8.996	1.00	51.95
ATOM	18130	CA	ARG	1959	31.018	-42.353	7.957	1.00	52.89
ATOM	18131	CB	ARG	1959	30.831	-42.642	6.619	1.00	54.96
ATOM	18132	CG	ARG	1959	28.840	-42.312	6.586	1.00	58.42
ATOM	18133	CD	ARG	1959	28.588	-42.652	6.595	1.00	58.95
ATOM	18134	NE	ARG	1959	27.184	-44.184	6.596	1.00	59.32
ATOM	18135	CZ	ARG	1959	28.312	-42.692	5.625	1.00	59.75
ATOM	18136	NHE	ARG	1959	28.723	-42.212	4.554	1.00	59.72
ATOM	18137	NHE	ARG	1959	27.976	-44.133	5.726	1.00	60.10
ATOM	18138	C	ARG	1959	32.529	-42.165	7.795	1.00	52.92
ATOM	18139	O	ARG	1959	33.034	-41.192	7.582	1.00	52.90
ATOM	18140	N	GLY	1959	33.345	-43.526	7.509	1.00	52.81
ATOM	18141	CA	GLY	1959	34.632	-43.290	7.771	1.00	52.49
ATOM	18142	C	GLY	1959	35.420	-43.286	9.101	1.00	51.95
ATOM	18143	O	GLY	1959	34.882	-42.834	10.110	1.00	52.28
ATOM	18144	N	ASP	1959	36.650	-43.787	9.101	1.00	51.06
ATOM	18145	CA	ASP	1959	37.450	-43.841	10.329	1.00	50.18
ATOM	18146	CB	ASP	1959	38.777	-44.553	10.050	1.00	52.74
ATOM	18147	CG	ASP	1959	38.584	-45.974	9.572	1.00	55.34
ATOM	18148	OD1	ASP	1959	37.908	-46.751	10.283	1.00	56.35
ATOM	18149	OD2	ASP	1959	39.138	-46.315	8.486	1.00	57.00
ATOM	18150	C	ASP	1959	37.727	-42.446	10.867	1.00	47.95
ATOM	18151	O	ASP	1959	37.620	-42.209	12.069	1.00	47.47
ATOM	18152	N	GLU	1959	38.082	-41.529	9.657	1.00	45.13
ATOM	18153	CA	GLU	1959	38.382	-40.160	10.158	1.00	43.01
ATOM	18154	CB	GLU	1959	38.677	-39.318	9.117	1.00	45.54
ATOM	18155	CG	GLU	1959	39.190	-37.924	9.419	1.00	46.50
ATOM	18156	CD	GLU	1959	39.353	-37.092	8.114	1.00	51.34
ATOM	18157	OE1	GLU	1959	39.950	-37.583	7.215	1.00	52.74
ATOM	18158	OE2	GLU	1959	38.850	-35.947	5.168	1.00	53.36
ATOM	18159	C	GLU	1959	37.231	-39.540	11.346	1.00	40.27
ATOM	18160	O	GLU	1959	37.380	-39.175	12.313	1.00	37.28
ATOM	18161	N	ALA	1959	36.975	-39.424	10.485	1.00	36.37
ATOM	18162	CA	ALA	1959	34.900	-38.846	11.119	1.00	34.01
ATOM	18163	CB	ALA	1959	33.754	-38.760	10.110	1.00	33.11
ATOM	18164	C	ALA	1959	34.484	-39.682	12.342	1.00	31.93
ATOM	18165	O	ALA	1959	34.047	-39.149	13.311	1.00	31.65
ATOM	18166	N	GLY	1960	34.625	-40.097	11.203	1.00	36.55
ATOM	18167	CA	GLY	1960	34.262	-41.095	12.211	1.00	39.48
ATOM	18168	C	GLY	1960	35.089	-41.676	14.513	1.00	28.48
ATOM	18169	O	GLY	1960	34.954	-41.644	13.634	1.00	27.01
ATOM	18170	N	ASP	1961	36.497	-41.520	14.363	1.00	27.04
ATOM	18171	CA	ASP	1961	37.281	-41.311	15.502	1.00	27.15
ATOM	18172	CB	ASP	1961	38.752	-41.439	13.076	1.00	29.17
ATOM	18173	CG	ASP	1961	39.120	-42.849	14.613	1.00	31.99
ATOM	18174	OE1	ASP	1961	38.394	-42.792	15.610	1.00	30.19
ATOM	18175	OE2	ASP	1961	40.143	-42.999	13.934	1.00	33.17
ATOM	18176	C	ASP	1961	37.654	-39.947	16.218	1.00	25.99
ATOM	18177	N	ASP	1961	37.114	-39.805	17.355	1.00	25.23
ATOM	18178	N	GLN	1962	37.791	-38.945	15.591	1.00	24.65
ATOM	18179	CA	GLN	1962	36.543	-37.598	15.803	1.00	24.43
ATOM	18180	CB	GLN	1962	36.401	-38.613	14.644	1.00	25.73
ATOM	18181	CG	GLN	1962	36.223	-39.174	15.095	1.00	28.89
ATOM	18182	CD	GLN	1962	37.400	-34.677	15.912	1.00	31.20
ATOM	18183	OE1	GLN	1962	38.524	-34.690	15.419	1.00	31.16
ATOM	18184	NE2	GLN	1962	37.144	-34.339	17.172	1.00	32.91
ATOM	18185	C	GLN	1962	35.295	-37.556	16.678	1.00	22.32
ATOM	18186	O	GLN	1962	35.267	-36.860	17.691	1.00	20.87
ATOM	18187	N	LEU	1963	34.253	-38.294	16.285	1.00	21.33
ATOM	18188	CA	LEU	1963	33.032	-38.323	17.068	1.00	21.71
ATOM	18189	CB	LEU	1963	31.903	-39.012	16.293	1.00	22.46
ATOM	18190	CG	LEU	1963	31.333	-38.237	15.092	1.00	28.54
ATOM	18191	CD1	LEU	1963	30.208	-39.027	14.450	1.00	28.46
ATOM	18192	CD2	LEU	1963	30.822	-36.868	15.550	1.00	27.56
ATOM	18193	C	LEU	1963	33.274	-39.044	18.392	1.00	20.51
ATOM	18194	O	LEU	1963	32.745	-38.641	19.425	1.00	18.17
ATOM	18195	N	LEU	1964	34.074	-40.109	18.359	1.00	19.90

ATOM	13199	CA	LEU	1964	34.387	-42.860	19.473	1.00	18.83
ATOM	13199	CB	LEU	1964	35.283	-42.160	18.758	1.00	19.20
ATOM	13199	CG	LEU	1964	35.150	-43.326	20.114	1.00	22.73
ATOM	13199	CH1	LEU	1964	36.408	-44.176	19.584	1.00	21.26
ATOM	13199	CH2	LEU	1964	34.908	-41.995	21.328	1.00	21.92
ATOM	13201	C	LEU	1964	35.115	-39.947	20.513	1.00	18.01
ATOM	13201	O	LEU	1964	34.877	-39.843	21.264	1.00	18.75
ATOM	13203	N	SER	1965	36.747	-39.197	19.859	1.00	19.21
ATOM	13204	CA	SER	1965	36.741	-38.251	20.722	1.00	18.88
ATOM	13205	CB	SER	1965	37.439	-37.584	19.813	1.00	19.39
ATOM	13206	CG	SER	1965	38.736	-37.691	20.792	1.00	21.10
ATOM	13207	C	SER	1965	36.727	-37.179	21.754	1.00	17.02
ATOM	13208	O	SER	1965	36.132	-36.945	22.350	1.00	15.35
ATOM	13209	N	ASP	1966	35.156	-36.558	20.744	1.00	18.60
ATOM	13210	CA	ASP	1966	34.738	-35.549	21.071	1.00	17.92
ATOM	13211	CB	ASP	1966	33.694	-34.910	19.963	1.00	18.63
ATOM	13212	CG	ASP	1966	34.197	-34.078	18.971	1.00	19.16
ATOM	13213	CH1	ASP	1966	35.154	-33.546	19.751	1.00	24.28
ATOM	13214	CH2	ASP	1966	33.745	-32.944	17.814	1.00	20.44
ATOM	13215	C	ASP	1966	33.778	-33.061	22.170	1.00	15.95
ATOM	13216	O	ASP	1966	32.132	-31.449	23.193	1.00	15.58
ATOM	13217	N	ALA	1967	32.752	-31.263	21.781	1.00	15.46
ATOM	13218	CA	ALA	1967	31.760	-30.879	22.748	1.00	13.99
ATOM	13219	CB	ALA	1967	31.776	-30.264	22.451	1.00	13.81
ATOM	13220	C	ALA	1967	32.703	-30.012	24.280	1.00	14.10
ATOM	13221	O	ALA	1967	32.712	-30.674	25.232	1.00	14.44
ATOM	13222	N	LEU	1968	33.744	-30.430	24.340	1.00	13.09
ATOM	13223	CA	LEU	1968	34.714	-30.650	25.467	1.00	13.85
ATOM	13224	CB	LEU	1968	36.710	-30.434	25.164	1.00	14.52
ATOM	13225	CG	LEU	1968	35.705	-40.946	24.854	1.00	14.84
ATOM	13226	CH1	LEU	1968	37.706	-41.547	24.334	1.00	16.18
ATOM	13227	CH2	LEU	1968	35.709	-41.619	26.707	1.00	17.51
ATOM	13228	C	LEU	1968	35.702	-37.293	26.688	1.00	13.86
ATOM	13229	O	LEU	1968	35.756	-37.137	27.769	1.00	14.68
ATOM	13230	N	ALA	1969	35.732	-36.290	25.257	1.00	14.60
ATOM	13231	CA	ALA	1969	35.732	-34.977	25.369	1.00	14.01
ATOM	13231	CB	ALA	1969	36.710	-34.085	24.833	1.00	14.15
ATOM	13231	C	ALA	1969	34.707	-34.315	26.467	1.00	13.12
ATOM	13234	O	ALA	1969	34.699	-31.644	27.476	1.00	12.49
ATOM	13235	N	LEU	1970	33.777	-34.512	25.907	1.00	15.34
ATOM	13236	CA	LEU	1970	32.760	-34.065	26.362	1.00	14.25
ATOM	13237	CB	LEU	1970	30.760	-34.210	25.763	1.00	15.21
ATOM	13238	CG	LEU	1970	30.759	-33.384	24.312	1.00	16.66
ATOM	13239	CH1	LEU	1970	29.759	-33.811	23.317	1.00	17.51
ATOM	13240	CH2	LEU	1970	30.749	-33.913	24.610	1.00	16.43
ATOM	13241	C	LEU	1970	31.736	-34.661	27.848	1.00	13.54
ATOM	13241	O	LEU	1970	31.774	-33.942	26.824	1.00	12.41
ATOM	13241	N	GLU	1971	31.781	-35.940	27.907	1.00	12.89
ATOM	13241	CA	GLU	1971	31.787	-34.775	29.161	1.00	14.16
ATOM	13241	CB	GLU	1971	31.787	-34.214	28.347	1.00	16.29
ATOM	13241	CG	GLU	1971	31.750	-33.014	27.216	1.00	15.30
ATOM	13241	CH	GLU	1971	32.734	-40.571	29.901	1.00	15.43
ATOM	13241	CH1	GLU	1971	34.760	-40.846	29.411	1.00	18.87
ATOM	13241	CH2	GLU	1971	34.759	-41.162	30.357	1.00	17.46
ATOM	13250	C	GLU	1971	31.775	-36.217	27.190	1.00	15.18
ATOM	13251	O	GLU	1971	32.766	-35.945	28.137	1.00	14.13
ATOM	13251	N	ALA	1972	34.773	-36.009	28.373	1.00	14.47
ATOM	13251	CA	ALA	1972	35.757	-35.549	27.690	1.00	15.71
ATOM	13251	CB	ALA	1972	36.740	-35.643	26.913	1.00	15.18
ATOM	13251	C	ALA	1972	34.773	-34.111	28.119	1.00	15.67
ATOM	13256	O	ALA	1972	35.751	-33.842	27.322	1.00	17.06
ATOM	13257	N	ALA	1973	34.767	-33.571	27.341	1.00	16.63
ATOM	13258	CA	ALA	1973	33.746	-33.943	26.677	1.00	16.03
ATOM	13259	CB	ALA	1973	33.434	-32.243	29.399	1.00	17.16
ATOM	13260	C	ALA	1973	32.660	-32.934	31.693	1.00	16.25
ATOM	13261	O	ALA	1973	32.449	-30.940	32.351	1.00	16.68
ATOM	13262	N	GLY	1974	31.759	-33.013	31.423	1.00	15.27
ATOM	13263	CA	GLY	1974	30.767	-32.037	32.299	1.00	15.24
ATOM	13264	C	GLY	1974	29.743	-32.542	32.351	1.00	13.22
ATOM	13265	O	GLY	1974	28.748	-32.327	31.007	1.00	13.69
ATOM	13266	N	ALA	1975	29.767	-32.606	30.751	1.00	13.37
ATOM	13267	CA	ALA	1975	28.738	-31.927	30.396	1.00	12.32
ATOM	13268	CB	ALA	1975	28.125	-34.066	28.388	1.00	12.07
ATOM	13269	C	ALA	1975	27.781	-35.243	31.031	1.00	12.54
ATOM	13270	O	ALA	1975	28.764	-36.188	31.104	1.00	11.18
ATOM	13271	N	GLN	1976	26.730	-35.304	31.492	1.00	11.89
ATOM	13272	CA	GLN	1976	25.803	-36.514	32.132	1.00	11.40

ATOM	13277	CB	SHN	1977	25.609	-47.115	41.547	1.00	17.41
ATOM	13278	CG	SHN	1977	25.890	-47.261	41.561	1.00	17.82
ATOM	13279	CH	SHN	1977	25.091	-47.175	41.520	1.00	16.62
ATOM	13280	HE1	SHN	1977	24.747	-47.845	41.631	1.00	21.24
ATOM	13281	HE2	SHN	1977	24.784	-48.147	41.641	1.00	14.90
ATOM	13282	C	SHN	1977	24.911	-47.148	41.196	1.00	11.43
ATOM	13283	O	SHN	1977	24.407	-48.597	41.581	1.00	11.61
ATOM	13284	N	LEU	1977	24.750	-47.342	41.020	1.00	10.84
ATOM	13285	CA	LEU	1977	23.926	-47.533	41.957	1.00	12.72
ATOM	13286	CB	LEU	1977	22.510	-47.145	41.049	1.00	15.93
ATOM	13287	CG	LEU	1977	21.662	-46.134	41.816	1.00	21.02
ATOM	13288	CH1	LEU	1977	20.215	-47.461	40.012	1.00	21.06
ATOM	13289	CH2	LEU	1977	21.419	-47.379	41.915	1.00	23.10
ATOM	13290	C	LEU	1977	24.476	-47.136	41.518	1.00	11.33
ATOM	13291	O	LEU	1977	25.064	-47.350	41.414	1.00	12.24
ATOM	13292	N	LEU	1978	24.215	-47.264	41.614	1.00	11.93
ATOM	13293	CA	LEU	1978	24.673	-47.359	41.117	1.00	12.10
ATOM	13294	CB	LEU	1978	26.006	-47.341	41.601	1.00	13.29
ATOM	13295	CG	LEU	1978	26.403	-47.441	41.517	1.00	16.13
ATOM	13296	CH1	LEU	1978	26.503	-47.311	41.813	1.00	16.64
ATOM	13297	CH2	LEU	1978	27.813	-47.159	41.412	1.00	12.84
ATOM	13298	C	LEU	1978	23.693	-47.111	41.218	1.00	12.27
ATOM	13299	O	LEU	1978	23.211	-47.445	41.314	1.00	13.09
ATOM	13300	N	VAL	1978	23.346	-47.503	41.219	1.00	11.61
ATOM	13301	CA	VAL	1978	22.486	-47.911	41.119	1.00	10.55
ATOM	13302	CB	VAL	1978	21.303	-47.815	41.814	1.00	10.14
ATOM	13303	CG1	VAL	1978	20.703	-47.968	40.412	1.00	10.01
ATOM	13304	CG2	VAL	1978	20.301	-47.811	41.915	1.00	9.21
ATOM	13305	C	VAL	1978	23.343	-48.099	40.916	1.00	10.11
ATOM	13306	O	VAL	1978	24.106	-47.074	40.617	1.00	13.15
ATOM	13307	N	LEU	1980	23.118	-47.214	40.218	1.00	12.53
ATOM	13308	CA	LEU	1980	23.813	-47.147	41.019	1.00	14.61
ATOM	13309	CB	LEU	1980	24.110	-47.013	41.113	1.00	16.21
ATOM	13310	CG	LEU	1980	25.813	-47.049	41.719	1.00	21.52
ATOM	13311	CH1	LEU	1980	26.113	-47.198	41.616	1.00	17.71
ATOM	13312	CH2	LEU	1980	26.813	-47.064	41.110	1.00	18.45
ATOM	13313	C	LEU	1980	22.743	-47.116	41.816	1.00	11.15
ATOM	13314	O	LEU	1980	21.811	-47.411	41.010	1.00	11.67
ATOM	13315	N	GLU	1981	22.886	-47.186	41.316	1.00	14.35
ATOM	13316	CA	GLU	1981	21.853	-47.126	41.811	1.00	11.01
ATOM	13317	CB	GLU	1981	21.113	-47.114	41.719	1.00	11.80
ATOM	13318	CG	GLU	1981	20.441	-47.111	41.514	1.00	16.75
ATOM	13319	CH	GLU	1981	19.611	-47.147	41.717	1.00	23.90
ATOM	13320	CH1	GLU	1981	20.103	-47.184	41.319	1.00	21.09
ATOM	13321	CH2	GLU	1981	18.491	-47.192	41.211	1.00	26.95
ATOM	13322	C	GLU	1981	22.413	-47.120	41.413	1.00	17.13
ATOM	13323	O	GLU	1981	23.413	-47.198	41.317	1.00	18.47
ATOM	13324	N	GLU	1981	21.113	-47.183	41.819	1.00	11.94
ATOM	13325	CA	GLU	1981	22.113	-47.112	41.513	1.00	19.61
ATOM	13326	CB	GLU	1981	21.593	-47.151	41.419	1.00	18.86
ATOM	13327	CG	GLU	1981	19.113	-47.150	41.410	1.00	21.17
ATOM	13328	C	GLU	1981	23.113	-47.147	41.313	1.00	20.16
ATOM	13329	O	GLU	1981	24.113	-47.134	41.616	1.00	21.64
ATOM	13330	N	VAL	1981	23.981	-47.194	41.510	1.00	21.57
ATOM	13331	CA	VAL	1981	25.113	-47.119	41.814	1.00	21.50
ATOM	13332	CB	VAL	1981	26.113	-47.103	41.712	1.00	21.68
ATOM	13333	CG1	VAL	1981	25.149	-47.192	41.117	1.00	24.53
ATOM	13334	CG2	VAL	1981	27.513	-47.115	41.011	1.00	26.15
ATOM	13335	C	VAL	1981	25.113	-47.111	41.614	1.00	21.11
ATOM	13336	O	VAL	1981	24.113	-47.101	41.011	1.00	19.54
ATOM	13337	N	PRO	1984	26.113	-47.150	41.945	1.00	21.58
ATOM	13338	CD	PRO	1984	27.513	-47.182	41.112	1.00	21.46
ATOM	13339	CA	PRO	1984	26.113	-47.186	41.714	1.00	20.82
ATOM	13340	CB	PRO	1984	27.713	-47.130	41.912	1.00	23.68
ATOM	13341	CG	PRO	1984	28.513	-47.155	41.367	1.00	24.76
ATOM	13342	C	PRO	1984	26.213	-47.167	41.043	1.00	18.62
ATOM	13343	O	PRO	1984	26.897	-47.110	41.010	1.00	18.80
ATOM	13344	N	VAL	1985	25.513	-47.111	41.018	1.00	18.79
ATOM	13345	CA	VAL	1985	25.313	-47.158	41.215	1.00	19.02
ATOM	13346	CB	VAL	1985	24.513	-47.185	41.814	1.00	20.60
ATOM	13347	CG1	VAL	1985	24.313	-47.161	41.112	1.00	20.17
ATOM	13348	CG2	VAL	1985	23.213	-47.154	41.214	1.00	17.11
ATOM	13349	C	VAL	1985	26.613	-47.190	41.909	1.00	20.44
ATOM	13350	O	VAL	1985	26.732	-47.151	41.116	1.00	19.57
ATOM	13351	N	GLU	1986	27.630	-47.183	41.112	1.00	20.52
ATOM	13352	CA	GLU	1986	28.907	-47.100	41.692	1.00	21.16
ATOM	13353	CB	GLU	1986	29.858	-47.122	41.605	1.00	23.66

ATOM	13450	CG	GLU	1996	29.427	-50.072	12.168	1.00	30.18
ATOM	13451	CD	GLU	1996	29.113	-50.765	11.862	1.00	31.04
ATOM	13452	OE1	GLU	1996	27.963	-51.957	12.162	1.00	34.04
ATOM	13453	OE2	GLU	1996	27.254	-50.116	11.267	1.00	32.54
ATOM	13454	C	GLN	1996	28.573	-48.667	13.453	1.00	35.74
ATOM	13455	O	GLN	1996	30.213	-46.904	16.486	1.00	32.21
ATOM	13456	N	LEU	1997	28.435	-47.440	14.953	1.00	39.82
ATOM	13457	CA	LEU	1997	30.032	-46.288	15.623	1.00	39.57
ATOM	13458	CB	LEU	1997	29.473	-45.039	14.743	1.00	31.80
ATOM	13459	CG	LEU	1997	31.133	-44.044	14.841	1.00	34.62
ATOM	13460	CH1	LEU	1997	30.711	-43.716	14.230	1.00	34.77
ATOM	13461	CH2	LEU	1997	31.567	-43.819	15.173	1.00	37.37
ATOM	13462	C	LEU	1997	29.179	-45.015	16.960	1.00	39.14
ATOM	13463	O	LEU	1997	29.488	-46.704	17.997	1.00	39.07
ATOM	13464	N	ALA	1998	27.954	-46.113	16.379	1.00	37.69
ATOM	13465	CA	ALA	1998	27.127	-46.993	18.396	1.00	36.77
ATOM	13466	CB	ALA	1998	25.843	-46.033	17.686	1.00	38.29
ATOM	13467	C	ALA	1998	27.317	-46.914	19.131	1.00	37.26
ATOM	13468	O	ALA	1998	27.800	-46.633	20.729	1.00	35.24
ATOM	13469	N	LYS	1998	27.447	-44.311	18.692	1.00	38.47
ATOM	13470	CA	LYS	1998	28.263	-43.233	19.190	1.00	40.96
ATOM	13471	CB	LYS	1998	28.561	-50.433	18.331	1.00	35.15
ATOM	13472	CG	LYS	1998	27.388	-50.977	17.375	1.00	30.44
ATOM	13473	CH	LYS	1998	27.073	-50.164	17.338	1.00	33.35
ATOM	13474	CH1	LYS	1998	26.763	-51.361	15.868	1.00	34.91
ATOM	13475	NH2	LYS	1998	27.497	-53.555	15.700	1.00	37.47
ATOM	13476	C	LYS	1998	29.551	-47.734	20.109	1.00	39.44
ATOM	13477	O	LYS	1998	29.657	-47.354	21.323	1.00	40.34
ATOM	13478	N	ARG	1999	29.539	-47.361	19.103	1.00	38.82
ATOM	13479	CA	ARG	1999	31.433	-47.987	20.717	1.00	38.71
ATOM	13480	CB	ARG	1999	32.707	-47.434	18.372	1.00	33.33
ATOM	13481	CG	ARG	1999	31.137	-47.610	19.159	1.00	38.11
ATOM	13482	CD	ARG	1999	25.129	-46.781	18.249	1.00	31.00
ATOM	13483	NE	ARG	1999	24.739	-46.873	16.841	1.00	33.95
ATOM	13484	CZ	ARG	1999	26.331	-46.133	15.871	1.00	34.97
ATOM	13485	NH1	ARG	1999	26.747	-47.330	14.155	1.00	34.80
ATOM	13486	NH2	ARG	1999	24.811	-46.239	14.818	1.00	33.69
ATOM	13487	C	ARG	1999	31.691	-47.833	21.338	1.00	37.36
ATOM	13488	O	ARG	1999	32.295	-47.961	22.125	1.00	36.47
ATOM	13489	N	ILE	1999	30.879	-47.837	20.744	1.00	35.72
ATOM	13490	CA	ILE	1999	30.663	-44.713	21.847	1.00	34.45
ATOM	13491	CB	ILE	1999	29.863	-47.386	20.897	1.00	33.43
ATOM	13492	CG2	ILE	1999	29.304	-47.368	21.887	1.00	35.16
ATOM	13493	CG1	ILE	1999	30.767	-47.673	19.767	1.00	33.76
ATOM	13494	CH1	ILE	1999	30.131	-47.897	18.966	1.00	35.99
ATOM	13495	C	ILE	1999	29.816	-47.637	22.933	1.00	35.45
ATOM	13496	O	ILE	1999	30.802	-47.873	24.029	1.00	34.39
ATOM	13497	N	THR	1999	28.654	-47.877	22.799	1.00	34.96
ATOM	13498	CA	THR	1999	28.067	-46.381	23.963	1.00	34.13
ATOM	13499	CB	THR	1999	26.314	-47.633	23.647	1.00	37.12
ATOM	13500	CG1	THR	1999	26.016	-46.199	21.703	1.00	37.87
ATOM	13501	CG2	THR	1999	31.991	-47.431	24.079	1.00	37.04
ATOM	13502	C	THR	1999	28.897	-47.711	24.927	1.00	36.80
ATOM	13503	O	THR	1999	31.761	-47.643	26.741	1.00	35.95
ATOM	13504	N	GIU	1999	29.757	-48.037	24.373	1.00	37.05
ATOM	13505	CA	GIU	1999	30.377	-48.869	25.339	1.00	37.12
ATOM	13506	CB	GIU	1999	31.088	-50.363	24.411	1.00	37.15
ATOM	13507	CG	GIU	1999	29.691	-50.801	25.681	1.00	36.99
ATOM	13508	CH	GIU	1999	30.491	-51.101	23.915	1.00	29.74
ATOM	13509	OE1	GIU	1999	31.684	-51.153	22.646	1.00	37.85
ATOM	13510	OE2	GIU	1999	29.695	-50.050	22.856	1.00	31.62
ATOM	13511	C	GIU	1999	31.561	-48.037	25.781	1.00	39.25
ATOM	13512	O	GIU	1999	32.523	-48.440	26.814	1.00	20.28
ATOM	13513	N	ALA	1999	32.130	-47.989	25.115	1.00	35.41
ATOM	13514	CA	ALA	1999	33.257	-47.178	25.564	1.00	38.10
ATOM	13515	CB	ALA	1999	33.820	-47.387	24.398	1.00	37.09
ATOM	13516	C	ALA	1999	32.888	-47.234	26.765	1.00	38.12
ATOM	13517	O	ALA	1999	33.716	-44.926	27.583	1.00	39.20
ATOM	13518	N	LEU	1999	31.647	-44.770	26.708	1.00	37.31
ATOM	13519	CA	LEU	1999	31.191	-43.841	27.741	1.00	37.19
ATOM	13520	CB	LEU	1999	30.222	-42.821	27.145	1.00	37.68
ATOM	13521	CG	LEU	1999	30.754	-41.776	26.175	1.00	38.73
ATOM	13522	CD1	LEU	1999	29.641	-40.764	25.924	1.00	37.73
ATOM	13523	CD2	LEU	1999	31.976	-41.083	26.718	1.00	24.11
ATOM	13524	C	LEU	1999	30.514	-44.507	28.924	1.00	35.56
ATOM	13525	O	LEU	1999	29.807	-45.496	28.766	1.00	37.28
ATOM	13526	N	ALA	1999	30.739	-43.942	30.106	1.00	35.73

ATOM	13427	CA	ALA	1997	30.128	-44.435	31.334	1.00	15.77
ATOM	13428	CB	ALA	1997	30.946	-44.020	31.541	1.00	15.65
ATOM	13429	C	ALA	1997	29.727	-43.876	31.463	1.00	14.79
ATOM	13430	H	ALA	1997	29.395	-44.165	31.831	1.00	14.43
ATOM	13431	N	ILE	1997	33.575	-43.195	30.334	1.00	14.33
ATOM	13432	CA	ILE	1997	33.264	-43.179	30.946	1.00	14.39
ATOM	13433	CB	ILE	1997	33.473	-43.439	30.633	1.00	14.71
ATOM	13434	CG	ILE	1997	33.184	-43.119	31.731	1.00	10.02
ATOM	13435	CG1	ILE	1997	33.993	-40.111	29.249	1.00	11.88
ATOM	13436	CD1	ILE	1997	28.068	-38.718	28.834	1.00	13.96
ATOM	13437	C	ILE	1997	28.335	-41.255	29.909	1.00	13.66
ATOM	13438	O	ILE	1997	28.782	-41.173	29.935	1.00	12.53
ATOM	13439	H	PRO	1998	27.018	-43.111	31.111	1.00	13.35
ATOM	13440	CB	PRO	1998	24.261	-41.160	31.256	1.00	10.06
ATOM	13441	CA	PRO	1998	24.108	-41.119	29.118	1.00	12.65
ATOM	13442	CB	PRO	1998	23.745	-41.142	29.833	1.00	13.84
ATOM	13443	CG	PRO	1998	23.895	-41.113	30.788	1.00	18.97
ATOM	13444	C	PRO	1998	24.117	-41.162	27.784	1.00	12.72
ATOM	13445	O	PRO	1998	24.140	-41.111	27.718	1.00	12.83
ATOM	13446	N	VAL	1999	27.890	-41.113	28.771	1.00	11.68
ATOM	13447	CA	VAL	1999	27.850	-41.107	29.173	1.00	13.14
ATOM	13448	CB	VAL	1999	24.972	-41.113	24.565	1.00	14.39
ATOM	13449	CG1	VAL	1999	24.829	-41.164	23.661	1.00	11.88
ATOM	13450	CG2	VAL	1999	24.338	-41.185	25.061	1.00	13.61
ATOM	13451	C	VAL	1999	27.483	-41.115	24.784	1.00	12.68
ATOM	13452	O	VAL	1999	27.064	-41.169	24.757	1.00	11.67
ATOM	13453	N	ILE	2000	21.388	-41.168	24.346	1.00	12.00
ATOM	13454	CA	ILE	2000	20.649	-41.170	23.771	1.00	10.42
ATOM	13455	CB	ILE	2000	19.517	-40.164	24.361	1.00	11.32
ATOM	13456	CG2	ILE	2000	19.190	-40.165	23.645	1.00	14.54
ATOM	13457	CG1	ILE	2000	19.356	-40.187	25.869	1.00	12.67
ATOM	13458	CD1	ILE	2000	18.671	-38.108	26.580	1.00	14.64
ATOM	13459	C	ILE	2000	20.562	-41.167	22.265	1.00	11.37
ATOM	13460	O	ILE	2000	21.140	-40.182	21.814	1.00	12.18
ATOM	13461	N	GLY	2001	20.071	-41.195	21.486	1.00	9.23
ATOM	13462	CA	GLY	2001	20.114	-41.162	20.347	1.00	19.32
ATOM	13463	C	GLY	2001	19.845	-41.113	19.274	1.00	19.35
ATOM	13464	O	GLY	2001	19.773	-41.116	19.342	1.00	18.38
ATOM	13465	N	ILE	2002	18.014	-41.187	18.385	1.00	12.38
ATOM	13466	CA	ILE	2002	17.945	-41.130	17.149	1.00	12.83
ATOM	13467	CB	ILE	2002	17.947	-39.185	17.314	1.00	15.11
ATOM	13468	CG2	ILE	2002	18.439	-39.169	17.272	1.00	17.13
ATOM	13469	CG1	ILE	2002	16.884	-39.166	16.101	1.00	16.46
ATOM	13470	CD1	ILE	2002	16.206	-41.180	16.103	1.00	21.78
ATOM	13471	C	ILE	2002	16.812	-41.160	15.812	1.00	14.35
ATOM	13472	O	ILE	2002	16.812	-41.119	15.463	1.00	14.32
ATOM	13473	N	GLY	2003	17.272	-41.115	15.145	1.00	13.78
ATOM	13474	CA	GLY	2003	16.809	-41.134	15.952	1.00	13.18
ATOM	13475	C	GLY	2003	20.343	-41.161	14.180	1.00	13.30
ATOM	13476	O	GLY	2003	20.108	-41.148	13.281	1.00	16.43
ATOM	13477	H	ALA	2004	20.483	-41.198	15.347	1.00	14.35
ATOM	13478	CA	ALA	2004	20.361	-41.166	15.677	1.00	15.11
ATOM	13479	CB	ALA	2004	20.427	-41.171	12.871	1.00	16.87
ATOM	13480	C	ALA	2004	21.771	-41.117	12.771	1.00	15.53
ATOM	13481	H	ALA	2004	20.333	-41.114	16.533	1.00	18.51
ATOM	13482	N	GLY	2005	20.196	-41.196	16.781	1.00	16.11
ATOM	13483	CA	GLY	2005	20.148	-41.192	16.633	1.00	14.60
ATOM	13484	C	GLY	2005	20.179	-41.164	17.471	1.00	15.86
ATOM	13485	O	GLY	2005	20.072	-41.117	18.311	1.00	16.19
ATOM	13486	N	ASN	2006	18.847	-50.191	17.773	1.00	14.84
ATOM	13487	CA	ASN	2006	18.454	-50.136	19.150	1.00	14.80
ATOM	13488	CB	ASN	2006	18.552	-50.136	19.083	1.00	14.04
ATOM	13489	CG	ASN	2006	18.300	-50.101	18.712	1.00	12.52
ATOM	13490	CD1	ASN	2006	19.768	-50.101	18.870	1.00	16.70
ATOM	13491	ND2	ASN	2006	20.521	-50.168	18.232	1.00	12.06
ATOM	13492	C	ASN	2006	20.610	-50.148	20.094	1.00	14.16
ATOM	13493	O	ASN	2006	20.493	-50.132	21.183	1.00	15.18
ATOM	13494	N	VAL	2007	21.817	-50.153	19.703	1.00	14.84
ATOM	13495	CA	VAL	2007	23.091	-50.153	20.534	1.00	16.69
ATOM	13496	CB	VAL	2007	21.277	-50.144	19.877	1.00	18.49
ATOM	13497	CG1	VAL	2007	23.448	-50.169	20.490	1.00	25.46
ATOM	13498	CG2	VAL	2007	21.073	-50.178	18.421	1.00	22.41
ATOM	13499	C	VAL	2007	23.167	-49.130	21.649	1.00	16.08
ATOM	13500	O	VAL	2007	23.970	-49.186	22.517	1.00	14.39
ATOM	13501	H	THR	2008	21.418	-43.115	21.539	1.00	13.81
ATOM	13502	CA	THR	2008	22.509	-47.158	22.517	1.00	13.23
ATOM	13503	CB	THR	2008	21.997	-45.109	21.590	1.00	12.91

ATOM	13504	CG1	THR	2008	21.691	-49.789	21.417	1.00	13.88
ATOM	13505	CG2	THR	2008	21.341	-49.783	21.801	1.00	14.51
ATOM	13506	C	THR	2008	21.743	-49.523	22.839	1.00	13.64
ATOM	13507	O	THR	2008	20.956	-48.470	22.847	1.00	15.42
ATOM	13508	N	ASP	2009	21.693	-46.596	24.925	1.00	13.00
ATOM	13509	CA	ASP	2009	21.329	-47.671	26.205	1.00	12.92
ATOM	13510	CB	ASP	2009	22.064	-46.350	27.337	1.00	13.27
ATOM	13511	CG	ASP	2009	23.551	-46.681	27.365	1.00	14.17
ATOM	13512	CG1	ASP	2009	23.898	-47.849	27.650	1.00	15.47
ATOM	13513	CG2	ASP	2009	24.362	-45.779	27.693	1.00	14.16
ATOM	13514	C	ASP	2009	19.359	-46.652	26.202	1.00	13.91
ATOM	13515	O	ASP	2009	19.335	-47.265	26.545	1.00	14.59
ATOM	13516	N	GLY	2010	19.543	-45.658	25.187	1.00	14.59
ATOM	13517	CA	GLY	2010	18.172	-45.181	25.130	1.00	13.29
ATOM	13518	C	GLY	2010	17.329	-44.764	23.873	1.00	11.32
ATOM	13519	O	GLY	2010	18.700	-44.128	23.903	1.00	11.26
ATOM	13520	N	GLN	2011	16.561	-44.427	23.644	1.00	11.11
ATOM	13521	CA	GLN	2011	14.191	-44.602	22.325	1.00	10.95
ATOM	13522	CB	GLN	2011	15.213	-45.121	21.706	1.00	12.17
ATOM	13523	CG	GLN	2011	15.923	-46.426	21.376	1.00	10.38
ATOM	13524	CD	GLN	2011	16.987	-46.262	20.303	1.00	9.79
ATOM	13525	OE1	GLN	2011	16.911	-45.508	19.344	1.00	12.91
ATOM	13526	NE2	GLN	2011	18.087	-46.986	20.445	1.00	12.26
ATOM	13527	C	GLN	2011	15.254	-42.755	22.437	1.00	11.93
ATOM	13528	O	GLN	2011	14.647	-42.495	23.451	1.00	9.84
ATOM	13529	N	ILE	2012	15.207	-42.023	21.377	1.00	13.12
ATOM	13530	CA	ILE	2012	14.184	-40.831	21.307	1.00	16.32
ATOM	13531	CB	ILE	2012	15.123	-39.563	21.593	1.00	20.21
ATOM	13532	CG2	ILE	2012	16.164	-39.279	20.451	1.00	19.95
ATOM	13533	CG1	ILE	2012	14.101	-38.371	21.851	1.00	22.75
ATOM	13534	CD1	ILE	2012	14.957	-37.271	22.672	1.00	20.84
ATOM	13535	C	ILE	2012	13.107	-40.764	19.951	1.00	18.75
ATOM	13536	O	ILE	2012	14.243	-41.203	18.929	1.00	17.43
ATOM	13537	N	LEU	2013	12.479	-40.250	19.942	1.00	19.42
ATOM	13538	CA	LEU	2013	11.746	-40.113	18.760	1.00	25.65
ATOM	13539	CB	LEU	2013	10.914	-41.356	18.419	1.00	26.87
ATOM	13540	CG	LEU	2013	11.227	-42.101	17.114	1.00	26.56
ATOM	13541	CD1	LEU	2013	10.173	-42.189	16.982	1.00	27.58
ATOM	13542	CD2	LEU	2013	11.206	-42.143	15.900	1.00	28.97
ATOM	13543	C	LEU	2013	10.833	-37.903	18.781	1.00	24.10
ATOM	13544	O	LEU	2013	10.037	-37.189	19.809	1.00	19.94
ATOM	13545	N	VAL	2014	10.588	-37.317	17.573	1.00	23.42
ATOM	13546	CA	VAL	2014	8.714	-37.186	17.429	1.00	22.95
ATOM	13547	CB	VAL	2014	9.891	-36.501	16.059	1.00	25.58
ATOM	13548	CG1	VAL	2014	8.903	-37.349	15.997	1.00	25.64
ATOM	13549	CG2	VAL	2014	11.313	-37.989	15.898	1.00	29.40
ATOM	13550	C	VAL	2014	8.310	-37.732	17.399	1.00	19.50
ATOM	13551	O	VAL	2014	7.917	-37.573	16.684	1.00	17.37
ATOM	13552	N	MET	2015	7.553	-37.273	16.383	1.00	16.86
ATOM	13553	CA	MET	2015	6.139	-37.712	18.687	1.00	15.75
ATOM	13554	CB	MET	2015	5.567	-37.013	19.413	1.00	13.14
ATOM	13555	CG	MET	2015	5.481	-37.513	19.341	1.00	14.95
ATOM	13556	CG1	MET	2015	3.933	-37.681	20.457	1.00	14.12
ATOM	13557	CG2	MET	2015	3.773	-37.773	19.379	1.00	13.37
ATOM	13558	C	MET	2015	5.413	-37.143	17.491	1.00	15.50
ATOM	13559	O	MET	2015	4.463	-37.123	17.153	1.00	16.99
ATOM	13560	N	HIS	2016	5.601	-36.411	16.711	1.00	13.73
ATOM	13561	CA	HIS	2016	4.804	-36.111	15.527	1.00	15.08
ATOM	13562	CB	HIS	2016	5.115	-36.733	15.905	1.00	15.69
ATOM	13563	CG	HIS	2016	4.603	-37.664	15.415	1.00	14.26
ATOM	13564	CD2	HIS	2016	5.132	-37.129	17.943	1.00	11.38
ATOM	13565	ND1	HIS	2016	3.333	-37.146	15.393	1.00	15.21
ATOM	13566	CG1	HIS	2016	3.032	-38.345	16.333	1.00	13.82
ATOM	13567	NE2	HIS	2016	4.170	-38.313	17.533	1.00	16.57
ATOM	13568	C	HIS	2016	4.933	-37.221	14.462	1.00	16.85
ATOM	13569	O	HIS	2016	4.035	-37.462	13.653	1.00	17.99
ATOM	13570	N	ASP	2017	6.143	-37.883	14.455	1.00	17.44
ATOM	13571	CA	ASP	2017	6.353	-38.967	13.135	1.00	22.03
ATOM	13572	CB	ASP	2017	7.353	-39.112	13.177	1.00	23.41
ATOM	13573	CG	ASP	2017	6.440	-37.954	12.431	1.00	27.95
ATOM	13574	OD1	ASP	2017	7.857	-37.543	11.493	1.00	27.29
ATOM	13575	OD2	ASP	2017	6.483	-37.442	12.873	1.00	26.63
ATOM	13576	C	ASP	2017	5.817	-40.278	14.073	1.00	21.90
ATOM	13577	O	ASP	2017	5.254	-41.105	13.357	1.00	23.38
ATOM	13578	N	ALA	2018	5.986	-40.454	15.333	1.00	22.26
ATOM	13579	CA	ALA	2018	5.533	-41.661	16.083	1.00	22.32
ATOM	13580	CB	ALA	2018	5.940	-41.585	17.559	1.00	23.61

ATOM	13581	C	ALA	2018	4.047	-41.923	15.059	1.00	24.11
ATOM	13582	O	ALA	2018	3.597	-43.064	16.095	1.00	15.31
ATOM	13583	N	PHE	2019	3.255	-40.871	15.711	1.00	21.81
ATOM	13584	CA	PHE	2019	1.807	-41.011	15.561	1.00	22.15
ATOM	13585	CB	PHE	2019	1.080	-40.151	16.556	1.00	23.71
ATOM	13586	CG	PHE	2019	1.580	-40.355	17.099	1.00	24.13
ATOM	13587	CD1	PHE	2019	1.717	-41.638	16.511	1.00	24.31
ATOM	13588	CL	PHE	2019	1.935	-39.821	16.738	1.00	25.31
ATOM	13589	CE1	PHE	2019	2.207	-41.843	16.827	1.00	25.08
ATOM	13590	CE2	PHE	2019	2.426	-39.463	16.091	1.00	25.89
ATOM	13591	CZ	PHE	2019	2.561	-40.553	20.593	1.00	26.24
ATOM	13592	C	PHE	2019	1.329	-40.637	14.155	1.00	21.96
ATOM	13593	C	PHE	2019	0.156	-40.825	13.647	1.00	23.81
ATOM	13594	N	GLY	2020	2.243	-40.658	13.194	1.00	23.65
ATOM	13595	CA	GLY	2020	1.879	-40.828	11.809	1.00	24.29
ATOM	13596	C	GLY	2020	1.197	-39.083	11.630	1.00	23.30
ATOM	13597	O	GLY	2020	0.433	-38.791	10.706	1.00	24.31
ATOM	13598	N	ILE	2021	1.445	-38.043	12.570	1.00	22.32
ATOM	13599	CA	ILE	2021	0.921	-38.731	12.468	1.00	19.93
ATOM	13600	CB	ILE	2021	0.376	-35.913	14.750	1.00	18.95
ATOM	13601	CG2	ILE	2021	0.183	-34.503	14.565	1.00	18.28
ATOM	13602	CG1	ILE	2021	0.168	-36.590	14.710	1.00	17.73
ATOM	13603	CD1	ILE	2021	0.185	-36.981	14.319	1.00	15.40
ATOM	13604	C	ILE	2021	1.147	-35.961	11.300	1.00	20.73
ATOM	13605	O	ILE	2021	0.738	-35.342	10.502	1.00	18.39
ATOM	13606	N	THR	2022	2.771	-36.904	11.194	1.00	22.40
ATOM	13607	CA	THR	2022	3.475	-35.313	10.120	1.00	25.37
ATOM	13608	CB	THR	2022	4.385	-35.263	10.385	1.00	27.00
ATOM	13609	CG1	THR	2022	5.517	-36.600	10.373	1.00	32.73
ATOM	13610	CG2	THR	2022	5.160	-34.641	11.735	1.00	26.74
ATOM	13611	C	THR	2022	3.240	-35.373	8.765	1.00	27.71
ATOM	13612	O	THR	2022	3.208	-37.203	8.663	1.00	26.18
ATOM	13613	N	GLY	2023	3.078	-35.147	7.738	1.00	29.75
ATOM	13614	CA	GLY	2023	2.854	-35.620	6.381	1.00	36.68
ATOM	13615	C	GLY	2023	2.624	-37.111	6.213	1.00	40.35
ATOM	13616	O	GLY	2023	1.665	-37.666	6.754	1.00	41.37
ATOM	13617	N	GLY	2024	3.503	-37.765	5.458	1.00	41.61
ATOM	13618	CA	GLY	2024	3.364	-39.194	5.240	1.00	45.00
ATOM	13619	C	GLY	2024	4.675	-38.899	4.961	1.00	43.33
ATOM	13620	O	GLY	2024	4.750	-41.125	5.012	1.00	44.64
ATOM	13621	N	HIS	2025	5.712	-39.125	4.664	1.00	42.93
ATOM	13622	CA	HIS	2025	7.031	-39.680	4.374	1.00	42.66
ATOM	13623	CB	HIS	2025	7.632	-38.976	3.151	1.00	46.48
ATOM	13624	CG	HIS	2025	7.432	-37.483	3.161	1.00	50.68
ATOM	13625	CD2	HIS	2025	6.733	-36.676	2.337	1.00	52.17
ATOM	13626	ND1	HIS	2025	8.001	-36.669	4.110	1.00	52.20
ATOM	13627	CE1	HIS	2025	7.660	-35.415	3.873	1.00	52.74
ATOM	13628	NE2	HIS	2025	6.635	-35.392	2.801	1.00	53.69
ATOM	13629	C	HIS	2025	7.983	-39.543	3.563	1.00	39.04
ATOM	13630	O	HIS	2025	8.682	-37.709	3.353	1.00	38.73
ATOM	13631	N	ILE	2026	7.750	-38.381	3.583	1.00	35.71
ATOM	13632	CA	ILE	2026	8.638	-38.350	3.771	1.00	32.13
ATOM	13633	CB	ILE	2026	8.940	-41.145	3.927	1.00	31.32
ATOM	13634	CG	ILE	2026	8.873	-38.569	3.305	1.00	35.66
ATOM	13635	CG1	ILE	2026	7.950	-38.610	3.923	1.00	37.23
ATOM	13636	CD1	ILE	2026	7.754	-41.554	3.695	1.00	34.59
ATOM	13637	C	ILE	2026	10.045	-40.897	3.009	1.00	25.87
ATOM	13638	O	ILE	2026	10.152	-41.710	3.452	1.00	25.84
ATOM	13639	N	PFO	2027	11.035	-40.346	3.256	1.00	25.23
ATOM	13640	CD	PFO	2027	10.945	-39.349	3.333	1.00	22.72
ATOM	13641	CA	PFO	2027	12.417	-40.793	3.075	1.00	23.00
ATOM	13642	CB	PFO	2027	13.189	-39.992	3.111	1.00	24.44
ATOM	13643	CG	PFO	2027	12.139	-39.676	12.139	1.00	26.02
ATOM	13644	C	PFO	2027	12.536	-41.299	3.266	1.00	21.46
ATOM	13645	O	PFO	2027	11.814	-41.990	3.964	1.00	18.51
ATOM	13646	N	LYS	2028	13.638	-41.840	3.642	1.00	21.15
ATOM	13647	CA	LYS	2028	13.928	-44.266	3.722	1.00	22.60
ATOM	13648	CB	LYS	2028	14.189	-43.637	3.914	1.00	25.69
ATOM	13649	CG	LYS	2028	14.946	-43.928	3.441	1.00	35.29
ATOM	13650	CD	LYS	2028	14.455	-43.717	4.653	1.00	36.85
ATOM	13651	CE	LYS	2028	14.316	-44.017	3.170	1.00	40.01
ATOM	13652	NZ	LYS	2028	14.001	-42.848	2.343	1.00	41.13
ATOM	13653	C	LYS	2028	14.109	-44.767	3.146	1.00	20.12
ATOM	13654	O	LYS	2028	13.751	-45.951	3.448	1.00	19.79
ATOM	13655	N	PHE	2029	14.656	-43.916	10.036	1.00	18.98
ATOM	13656	CA	PHE	2029	14.304	-44.357	11.400	1.00	17.08
ATOM	13657	CB	PHE	2029	16.031	-43.494	11.994	1.00	16.61

ATOM	13658	CA	PHE	2028	11.756	-44.627	11.873	1.00	18.88
ATOM	13659	CD	PHE	2028	14.872	-41.459	12.483	1.00	18.81
ATOM	13660	CE1	PHE	2028	14.353	-41.211	11.614	1.00	18.71
ATOM	13661	CE2	PHE	2028	14.585	-42.197	11.843	1.00	19.47
ATOM	13662	CE3	PHE	2028	14.372	-42.846	12.961	1.00	19.72
ATOM	13663	CD	PHE	2028	13.187	-43.258	11.875	1.00	19.51
ATOM	13664	CE	PHE	2028	14.683	-44.275	12.412	1.00	14.56
ATOM	13665	CE	PHE	2028	13.732	-44.745	12.445	1.00	12.75
ATOM	13666	N	ALA	2030	11.587	-43.766	11.823	1.00	12.77
ATOM	13667	CA	ALA	2030	11.374	-43.579	11.615	1.00	13.91
ATOM	13668	CB	ALA	2030	10.752	-42.221	12.387	1.00	14.25
ATOM	13669	C	ALA	2030	10.336	-44.861	12.345	1.00	15.51
ATOM	13670	O	ALA	2030	10.415	-45.349	11.356	1.00	14.24
ATOM	13671	N	LYS	2031	8.340	-44.751	13.243	1.00	13.20
ATOM	13672	CA	LYS	2031	8.287	-45.713	13.182	1.00	13.53
ATOM	13673	CB	LYS	2031	8.599	-46.980	13.924	1.00	13.72
ATOM	13674	CG	LYS	2031	7.469	-48.008	13.894	1.00	13.98
ATOM	13675	CD	LYS	2031	7.871	-49.321	14.566	1.00	15.44
ATOM	13676	CE	LYS	2031	6.659	-50.206	14.782	1.00	17.20
ATOM	13677	NZ	LYS	2031	7.004	-51.542	15.354	1.00	18.85
ATOM	13678	C	LYS	2031	6.996	-45.056	13.625	1.00	13.23
ATOM	13679	O	LYS	2031	6.961	-44.363	14.633	1.00	12.43
ATOM	13680	N	ASN	2032	5.915	-45.359	12.290	1.00	13.87
ATOM	13681	CA	ASN	2032	4.594	-44.366	13.272	1.00	14.12
ATOM	13682	CB	ASN	2032	3.746	-44.625	12.015	1.00	15.55
ATOM	13683	CG	ASN	2032	2.318	-44.218	12.336	1.00	17.13
ATOM	13684	OD1	ASN	2032	1.846	-44.384	13.465	1.00	18.27
ATOM	13685	ND2	ASN	2032	1.614	-43.699	11.338	1.00	15.67
ATOM	13686	C	ASN	2032	3.961	-48.964	14.124	1.00	14.05
ATOM	13687	O	ASN	2032	3.512	-46.987	13.554	1.00	13.34
ATOM	13688	N	PHE	2033	5.955	-43.760	15.435	1.00	11.21
ATOM	13689	CA	PHE	2033	3.352	-46.733	16.370	1.00	13.05
ATOM	13690	CB	PHE	2033	3.967	-46.540	17.778	1.00	13.12
ATOM	13691	CG	PHE	2033	5.412	-46.946	17.888	1.00	13.28
ATOM	13692	CD1	PHE	2033	6.433	-46.051	17.569	1.00	13.00
ATOM	13693	CD2	PHE	2033	5.751	-48.254	18.240	1.00	12.77
ATOM	13694	CE1	PHE	2033	7.773	-46.446	17.587	1.00	14.63
ATOM	13695	CE2	PHE	2033	7.091	-48.663	18.262	1.00	11.80
ATOM	13696	CE	PHE	2033	4.106	-47.756	17.934	1.00	12.01
ATOM	13697	C	PHE	2033	1.864	-46.643	16.421	1.00	14.13
ATOM	13698	O	PHE	2033	1.183	-47.663	16.788	1.00	15.64
ATOM	13699	N	LEU	2034	1.315	-45.493	16.654	1.00	13.12
ATOM	13700	CA	LEU	2034	-1.135	-45.372	16.075	1.00	14.62
ATOM	13701	CB	LEU	2034	-0.566	-43.933	15.780	1.00	15.39
ATOM	13702	CG	LEU	2034	-2.088	-43.744	15.737	1.00	15.09
ATOM	13703	CD1	LEU	2034	-2.712	-46.235	17.047	1.00	17.29
ATOM	13704	CD2	LEU	2034	-2.419	-42.283	15.484	1.00	15.32
ATOM	13705	C	LEU	2034	-0.741	-46.311	15.039	1.00	16.57
ATOM	13706	O	LEU	2034	-1.736	-47.004	15.313	1.00	14.84
ATOM	13707	N	ALA	2035	-1.132	-46.380	13.858	1.00	20.33
ATOM	13708	CA	ALA	2035	-0.653	-47.266	12.783	1.00	23.73
ATOM	13709	CB	ALA	2035	0.355	-47.219	11.614	1.00	25.77
ATOM	13710	C	ALA	2035	-0.750	-48.700	13.269	1.00	23.43
ATOM	13711	N	ALA	2035	-1.590	-49.483	11.664	1.00	24.55
ATOM	13712	N	GLN	2036	-0.117	-49.936	14.366	1.00	37.11
ATOM	13713	CA	GLN	2036	0.194	-50.373	14.954	1.00	41.95
ATOM	13714	CB	GLN	2036	0.893	-50.591	16.026	1.00	42.91
ATOM	13715	CG	GLN	2036	2.290	-50.150	15.973	1.00	45.41
ATOM	13716	CD	GLN	2036	2.844	-50.058	14.493	1.00	46.09
ATOM	13717	OE1	GLN	2036	3.862	-50.704	14.569	1.00	55.73
ATOM	13718	OE2	GLN	2036	2.240	-50.125	14.231	1.00	51.36
ATOM	13719	C	GLU	2036	-1.561	-50.695	15.591	1.00	43.11
ATOM	13720	O	GLU	2036	-1.915	-51.740	15.916	1.00	44.60
ATOM	13721	N	THR	2037	-2.313	-49.520	15.770	1.00	43.75
ATOM	13722	CA	THR	2037	-3.647	-49.569	16.372	1.00	43.51
ATOM	13723	CB	THR	2037	-3.594	-43.742	11.894	1.00	44.56
ATOM	13724	CG1	THR	2037	-4.872	-43.832	16.452	1.00	46.30
ATOM	13725	CG2	THR	2037	-2.821	-42.567	16.513	1.00	47.17
ATOM	13726	C	THR	2037	-4.442	-48.233	16.075	1.00	41.90
ATOM	13727	O	THR	2037	-4.206	-45.644	15.046	1.00	45.72
ATOM	13728	N	GLY	2038	-5.330	-47.916	16.976	1.00	38.36
ATOM	13729	CA	GLY	2038	-6.107	-46.700	16.809	1.00	32.91
ATOM	13730	C	GLY	2038	-6.187	-45.946	18.123	1.00	29.31
ATOM	13731	O	GLY	2038	-7.129	-45.193	18.383	1.00	29.97
ATOM	13732	N	ASP	2039	-5.184	-46.157	18.964	1.00	25.77
ATOM	13733	CA	ASP	2039	-5.134	-45.510	20.271	1.00	19.97
ATOM	13734	CB	ASP	2039	-5.582	-46.503	21.353	1.00	25.10

ATOM	13735	CG	ASP	2039	-5.458	-45.935	22.755	1.00	16.45
ATOM	13736	CG1	ASP	2039	-4.351	-45.993	23.316	1.00	15.80
ATOM	13737	CG2	ASP	2039	-6.466	-45.412	23.284	1.00	13.68
ATOM	13738	C	ASP	2039	-4.709	-45.026	26.528	1.00	15.18
ATOM	13739	O	ASP	2039	-2.770	-45.814	29.516	1.00	11.94
ATOM	13740	N	ILE	2040	-3.562	-43.725	20.762	1.00	14.13
ATOM	13741	CA	ILE	2040	-1.256	-43.121	26.989	1.00	12.81
ATOM	13742	CB	ILE	2040	-2.379	-41.579	21.053	1.00	12.80
ATOM	13743	CG1	ILE	2040	-1.046	-46.354	21.421	1.00	12.15
ATOM	13744	CG2	ILE	2040	-2.842	-41.052	19.689	1.00	13.28
ATOM	13745	CD1	ILE	2040	-3.192	-39.855	19.675	1.00	14.59
ATOM	13746	O	ILE	2040	-1.544	-41.143	22.234	1.00	12.95
ATOM	13747	O	ILE	2040	-0.336	-40.134	22.214	1.00	13.18
ATOM	13748	N	ARG	2041	-0.280	-41.181	23.312	1.00	11.80
ATOM	13749	CA	ARG	2041	-1.657	-44.190	24.520	1.00	13.04
ATOM	13750	CB	ARG	2041	-2.667	-44.183	25.860	1.00	13.42
ATOM	13751	CG	ARG	2041	-2.981	-41.185	26.125	1.00	14.21
ATOM	13752	CD	ARG	2041	-4.050	-41.163	27.178	1.00	16.52
ATOM	13753	NE	ARG	2041	-4.194	-41.123	27.733	1.00	14.95
ATOM	13754	CZ	ARG	2041	-4.651	-40.179	27.057	1.00	18.50
ATOM	13755	NH1	ARG	2041	-5.024	-40.100	25.791	1.00	14.68
ATOM	13756	NH2	ARG	2041	-4.728	-38.197	27.645	1.00	17.59
ATOM	13757	C	ARG	2041	-1.113	-45.153	24.264	1.00	12.55
ATOM	13758	O	ARG	2041	-0.026	-46.141	24.729	1.00	11.32
ATOM	13759	N	ALA	2042	-1.861	-45.583	23.513	1.00	12.58
ATOM	13760	CA	ALA	2042	-1.401	-47.346	23.186	1.00	13.09
ATOM	13761	CB	ALA	2042	-2.481	-45.588	22.387	1.00	13.73
ATOM	13762	C	ALA	2042	-0.111	-47.338	22.368	1.00	12.86
ATOM	13763	O	ALA	2042	0.627	-46.625	22.554	1.00	13.69
ATOM	13764	N	ALA	2043	-0.061	-46.862	21.462	1.00	11.53
ATOM	13765	CA	ALA	2043	1.121	-46.646	20.629	1.00	11.50
ATOM	13766	CB	ALA	2043	0.867	-45.552	19.605	1.00	10.75
ATOM	13767	C	ALA	2043	2.321	-46.232	21.491	1.00	10.66
ATOM	13768	O	ALA	2043	3.439	-46.727	21.235	1.00	12.15
ATOM	13769	N	VAL	2044	2.091	-45.449	22.505	1.00	9.56
ATOM	13770	CA	VAL	2044	3.166	-45.000	23.410	1.00	9.69
ATOM	13771	CB	VAL	2044	2.683	-45.883	24.419	1.00	11.34
ATOM	13772	CG1	VAL	2044	3.702	-45.823	25.536	1.00	11.70
ATOM	13773	CG2	VAL	2044	2.508	-43.856	23.494	1.00	9.79
ATOM	13774	C	VAL	2044	3.691	-46.278	24.163	1.00	11.39
ATOM	13775	O	VAL	2044	4.916	-46.543	24.268	1.00	11.33
ATOM	13776	N	ASP	2045	2.78	-47.111	24.522	1.00	19.73
ATOM	13777	CA	ASP	2045	3.177	-48.101	25.109	1.00	12.45
ATOM	13778	CB	ASP	2045	1.937	-49.016	25.956	1.00	11.81
ATOM	13779	CG	ASP	2045	1.321	-48.217	27.150	1.00	15.71
ATOM	13780	CD	ASP	2045	0.354	-49.215	27.963	1.00	17.80
ATOM	13781	NE	ASP	2045	-0.791	-49.618	27.115	1.00	18.46
ATOM	13782	CZ	ASP	2045	-1.866	-43.862	26.374	1.00	19.90
ATOM	13783	NH1	ASP	2045	-1.455	-47.612	27.362	1.00	19.74
ATOM	13784	NH2	ASP	2045	-1.374	-44.158	26.165	1.00	17.78
ATOM	13785	C	ASP	2045	1.968	-49.145	24.547	1.00	11.67
ATOM	13786	O	ASP	2045	4.923	-49.617	25.031	1.00	15.65
ATOM	13787	N	GLN	2046	3.604	-49.313	23.258	1.00	11.61
ATOM	13788	CA	GLN	2046	4.259	-50.115	23.543	1.00	15.89
ATOM	13789	CB	GLN	2046	3.503	-50.540	21.617	1.00	15.65
ATOM	13790	CG	GLN	2046	4.051	-51.119	19.616	1.00	15.14
ATOM	13791	CD	GLN	2046	3.321	-51.319	18.717	1.00	21.44
ATOM	13792	CE1	GLN	2046	2.004	-51.217	18.687	1.00	24.51
ATOM	13793	NE1	GLN	2046	1.063	-51.617	17.616	1.00	21.03
ATOM	13794	C	GLN	2046	3.682	-49.742	22.971	1.00	14.22
ATOM	13795	O	GLN	2046	5.624	-50.313	21.932	1.00	11.87
ATOM	13796	N	TYR	2047	5.821	-48.414	21.982	1.00	17.66
ATOM	13797	CA	TYR	2047	7.156	-47.414	21.740	1.00	17.34
ATOM	13798	CB	TYR	2047	6.993	-46.311	21.552	1.00	17.45
ATOM	13799	CG	TYR	2047	9.285	-45.848	21.643	1.00	17.33
ATOM	13800	CD1	TYR	2047	3.397	-45.843	20.855	1.00	17.66
ATOM	13801	CE1	TYR	2047	12.582	-45.148	20.940	1.00	15.80
ATOM	13802	CE2	TYR	2047	3.392	-44.469	22.510	1.00	17.07
ATOM	13803	CE3	TYR	2047	2.517	-43.115	22.601	1.00	14.07
ATOM	13804	CZ	TYR	2047	12.619	-14.218	21.824	1.00	14.94
ATOM	13805	OH	TYR	2047	11.815	-45.518	21.929	1.00	16.90
ATOM	13806	C	TYR	2047	8.030	-16.113	22.919	1.00	11.99
ATOM	13807	O	TYR	2047	9.145	-48.661	22.784	1.00	19.64
ATOM	13808	N	MET	2048	7.512	-45.616	24.139	1.00	15.77
ATOM	13809	CA	MET	2048	8.266	-16.110	25.361	1.00	13.01
ATOM	13810	CB	MET	2048	7.394	-47.907	26.595	1.00	14.40
ATOM	13811	CG	MET	2048	7.101	-46.434	26.842	1.00	14.98

ATOM	13812	SD	MET	2048	9.656	-46.163	18.103	1.00	14.17
ATOM	13813	CE	MET	2048	8.752	-46.711	23.507	1.00	14.21
ATOM	13814	C	MET	2048	8.740	-49.647	25.400	1.00	14.55
ATOM	13815	O	MET	2048	9.907	-49.941	25.652	1.00	11.07
ATOM	13816	N	ALA	2049	7.793	-50.561	25.163	1.00	14.54
ATOM	13817	CA	ALA	2049	8.096	-51.188	25.182	1.00	14.89
ATOM	13818	CB	ALA	2049	8.708	-52.769	24.992	1.00	14.39
ATOM	13819	C	ALA	2049	9.128	-52.185	24.140	1.00	15.06
ATOM	13820	O	ALA	2049	10.047	-53.183	24.414	1.00	14.34
ATOM	13821	N	GLU	2050	8.008	-51.049	22.316	1.00	13.67
ATOM	13822	CA	GLU	2050	8.962	-52.224	21.846	1.00	14.77
ATOM	13823	CB	GLU	2050	9.467	-51.778	20.482	1.00	10.52
ATOM	13824	CG	GLU	2050	8.388	-52.697	19.913	1.00	17.90
ATOM	13825	CD	GLU	2050	7.395	-52.284	18.844	1.00	11.19
ATOM	13826	OE1	GLU	2050	8.707	-51.760	17.752	1.00	14.22
ATOM	13827	OE2	GLU	2050	8.635	-52.502	18.255	1.00	13.57
ATOM	13828	C	GLU	2050	11.361	-51.689	22.143	1.00	14.61
ATOM	13829	O	GLU	2050	12.351	-52.322	21.792	1.00	12.64
ATOM	13830	N	VAL	2051	11.453	-50.328	22.783	1.00	14.64
ATOM	13831	CA	VAL	2051	12.774	-49.399	23.389	1.00	12.24
ATOM	13832	CB	VAL	2051	12.701	-48.552	23.383	1.00	12.65
ATOM	13833	CG1	VAL	2051	14.041	-48.152	24.218	1.00	12.32
ATOM	13834	CG2	VAL	2051	12.361	-47.621	22.427	1.00	10.30
ATOM	13835	C	VAL	2051	13.434	-50.866	24.153	1.00	12.70
ATOM	13836	O	VAL	2051	14.618	-51.203	24.043	1.00	14.76
ATOM	13837	N	GLU	2052	12.666	-51.232	25.177	1.00	12.67
ATOM	13838	CA	GLU	2052	13.196	-52.051	26.247	1.00	13.06
ATOM	13839	CB	GLU	2052	12.177	-52.152	27.405	1.00	17.19
ATOM	13840	CG	GLU	2052	12.650	-52.976	28.587	1.00	22.09
ATOM	13841	CD	GLU	2052	11.791	-52.762	29.886	1.00	27.02
ATOM	13842	OE1	GLU	2052	11.779	-53.647	30.714	1.00	29.74
ATOM	13843	OE2	GLU	2052	11.135	-51.702	29.940	1.00	27.62
ATOM	13844	C	GLU	2052	13.610	-53.445	25.899	1.00	15.04
ATOM	13845	O	GLU	2052	14.600	-54.005	26.299	1.00	12.91
ATOM	13846	N	SER	2053	12.863	-54.905	24.882	1.00	14.34
ATOM	13847	CA	SER	2053	13.173	-55.326	24.349	1.00	16.44
ATOM	13848	CB	SER	2053	11.353	-55.345	23.649	1.00	17.92
ATOM	13849	CG	SER	2053	10.260	-56.242	24.645	1.00	29.42
ATOM	13850	C	SER	2053	14.305	-55.292	23.337	1.00	16.59
ATOM	13851	O	SER	2053	14.863	-56.326	22.944	1.00	16.54
ATOM	13852	N	GLY	2054	14.632	-54.096	22.816	1.00	14.35
ATOM	13853	CA	GLY	2054	15.695	-53.981	21.817	1.00	14.92
ATOM	13854	C	GLY	2054	15.163	-54.137	20.464	1.00	14.49
ATOM	13855	O	GLY	2054	15.935	-54.053	19.503	1.00	14.84
ATOM	13856	N	VAL	2055	13.862	-54.372	20.347	1.00	13.75
ATOM	13857	CA	VAL	2055	13.131	-54.532	19.061	1.00	16.33
ATOM	13858	CB	VAL	2055	11.724	-55.036	19.312	1.00	19.13
ATOM	13859	CG1	VAL	2055	10.824	-54.610	18.137	1.00	24.52
ATOM	13860	CG2	VAL	2055	11.440	-54.528	19.341	1.00	22.18
ATOM	13861	C	VAL	2055	11.203	-53.323	18.141	1.00	15.78
ATOM	13862	O	VAL	2055	11.299	-53.420	16.653	1.00	14.76
ATOM	13863	N	TYR	2056	11.077	-52.117	18.433	1.00	13.64
ATOM	13864	CA	TYR	2056	11.105	-51.395	18.121	1.00	14.73
ATOM	13865	CB	TYR	2056	11.851	-50.108	18.326	1.00	14.11
ATOM	13866	CG	TYR	2056	11.878	-48.760	17.447	1.00	13.46
ATOM	13867	CD	TYR	2056	12.616	-48.613	16.177	1.00	14.58
ATOM	13868	CE1	TYR	2056	11.817	-47.443	15.715	1.00	13.65
ATOM	13869	CE2	TYR	2056	11.148	-47.614	16.749	1.00	11.87
ATOM	13870	CEL	TYR	2056	12.430	-46.117	15.196	1.00	13.86
ATOM	13871	CZ	TYR	2056	12.234	-46.313	16.126	1.00	14.29
ATOM	13872	OH	TYR	2056	12.432	-48.134	15.791	1.00	14.14
ATOM	13873	C	TYR	2056	14.266	-50.086	18.191	1.00	13.20
ATOM	13874	O	TYR	2056	14.412	-48.991	19.001	1.00	13.24
ATOM	13875	N	PRO	2057	15.092	-48.477	17.125	1.00	15.12
ATOM	13876	CD	PRO	2057	16.137	-43.516	18.118	1.00	16.15
ATOM	13877	CA	PRO	2057	14.932	-48.547	16.121	1.00	15.54
ATOM	13878	CB	PRO	2057	15.739	-48.374	15.180	1.00	18.49
ATOM	13879	CG	PRO	2057	16.365	-43.270	16.117	1.00	17.17
ATOM	13880	C	PRO	2057	15.378	-50.876	15.163	1.00	17.76
ATOM	13881	O	PRO	2057	16.236	-51.580	16.101	1.00	16.91
ATOM	13882	N	GLY	2058	14.745	-51.223	14.646	1.00	16.96
ATOM	13883	CA	GLY	2058	15.669	-52.457	13.951	1.00	18.25
ATOM	13884	C	GLY	2058	16.151	-52.181	12.932	1.00	19.23
ATOM	13885	O	GLY	2058	16.593	-51.639	12.776	1.00	17.91
ATOM	13886	N	GLU	2059	16.190	-52.220	12.234	1.00	18.48
ATOM	13887	CA	GLU	2059	17.627	-53.048	11.225	1.00	19.82
ATOM	13888	CB	GLU	2059	17.963	-54.396	10.572	1.00	22.37

ATOM	13889	CG	GLU	2089	19.024	-54.787	9.491	1.00	25.19
ATOM	13890	CD	GLU	2089	20.374	-53.864	10.050	1.00	26.27
ATOM	13891	OE1	GLU	2089	21.173	-53.788	9.285	1.00	28.76
ATOM	13892	OE2	GLU	2089	20.627	-54.117	11.246	1.00	24.77
ATOM	13893	C	GLU	2089	17.197	-52.054	10.151	1.00	17.71
ATOM	13894	O	GLU	2089	18.067	-51.172	9.657	1.00	16.86
ATOM	13895	N	GLU	2090	15.908	-51.078	9.797	1.00	18.39
ATOM	13896	CA	GLU	2090	15.888	-51.179	9.764	1.00	19.58
ATOM	13897	CB	GLU	2090	15.906	-51.506	8.433	1.00	23.58
ATOM	13898	CG	GLU	2090	15.569	-52.454	8.501	1.00	29.46
ATOM	13899	CD	GLU	2090	12.479	-52.188	8.527	1.00	30.54
ATOM	13900	OE1	GLU	2090	11.392	-52.590	8.370	1.00	31.23
ATOM	13901	OE2	GLU	2090	12.724	-53.454	13.484	1.00	34.44
ATOM	13902	C	GLU	2090	15.442	-49.722	8.197	1.00	18.24
ATOM	13903	O	GLU	2090	15.340	-48.818	8.363	1.00	18.32
ATOM	13904	N	HIS	2091	15.592	-48.499	11.499	1.00	17.85
ATOM	13905	CA	HIS	2091	15.648	-48.158	11.050	1.00	15.75
ATOM	13906	CB	HIS	2091	14.890	-48.375	12.374	1.00	15.70
ATOM	13907	CG	HIS	2091	15.481	-48.111	12.296	1.00	17.96
ATOM	13908	CD2	HIS	2091	12.870	-48.669	12.912	1.00	11.61
ATOM	13909	ND1	HIS	2091	12.820	-47.164	11.518	1.00	14.65
ATOM	13910	CE1	HIS	2091	11.778	-48.601	11.660	1.00	11.05
ATOM	13911	NE2	HIS	2091	11.119	-48.607	11.500	1.00	17.48
ATOM	13912	C	HIS	2091	11.174	-48.162	11.324	1.00	16.86
ATOM	13913	O	HIS	2091	11.197	-48.675	11.899	1.00	16.77
ATOM	13914	N	SEP	2092	18.946	-48.116	10.913	1.00	17.85
ATOM	13915	CA	SEP	2092	19.448	-48.110	11.175	1.00	18.95
ATOM	13916	CB	SEP	2092	20.051	-48.413	11.926	1.00	15.81
ATOM	13917	CG	SEP	2092	19.161	-48.900	13.059	1.00	21.17
ATOM	13918	CD	SEP	2092	20.198	-47.167	9.941	1.00	21.62
ATOM	13919	O	SEP	2092	19.840	-48.181	8.812	1.00	21.18
ATOM	13920	N	PHE	2093	21.421	-47.130	10.170	1.00	21.99
ATOM	13921	CA	PHE	2093	22.011	-46.870	9.099	1.00	26.28
ATOM	13922	CB	PHE	2093	22.000	-45.848	8.095	1.00	26.42
ATOM	13923	CG	PHE	2093	21.860	-44.816	8.830	1.00	29.55
ATOM	13924	CD1	PHE	2093	20.800	-44.146	8.835	1.00	31.36
ATOM	13925	CD2	PHE	2093	20.114	-44.119	7.568	1.00	29.76
ATOM	13926	CE1	PHE	2093	19.660	-42.784	9.607	1.00	30.50
ATOM	13927	CE2	PHE	2093	19.601	-43.110	7.028	1.00	31.35
ATOM	13928	CZ	PHE	2093	19.165	-41.706	8.350	1.00	19.87
ATOM	13929	C	PHE	2093	23.001	-47.157	9.301	1.00	26.42
ATOM	13930	O	PHE	2093	24.107	-47.449	13.432	1.00	21.96
ATOM	13931	N	HIS	2094	24.886	-47.667	8.199	1.00	28.64
ATOM	13932	CA	HIS	2094	25.687	-48.143	8.246	1.00	31.07
ATOM	13933	CB	HIS	2094	25.842	-49.446	7.789	1.00	31.23
ATOM	13934	CG	HIS	2094	24.184	-50.855	8.749	1.00	31.06
ATOM	13935	CD2	HIS	2094	23.807	-51.643	8.704	1.00	31.91
ATOM	13936	ND1	HIS	2094	25.811	-51.237	9.943	1.00	31.43
ATOM	13937	CE1	HIS	2094	24.413	-52.097	10.593	1.00	32.22
ATOM	13938	NE2	HIS	2094	23.813	-52.168	9.861	1.00	31.35
ATOM	13939	C	HIS	2094	26.123	-47.838	7.381	1.00	31.64
ATOM	13940	O	HIS	2094	27.891	-47.297	7.818	1.00	31.53
ATOM	13941	OXT	HIS	2094	26.777	-47.185	6.273	1.00	34.83
ATOM	13942	C1	FPL	2095	15.471	-35.267	17.261	1.00	66.48
ATOM	13943	C2	FPL	2095	16.103	-34.899	18.621	1.00	55.77
ATOM	13944	C3	FPL	2095	15.110	-35.145	19.733	1.00	44.51
ATOM	13945	C4	FPL	2095	17.119	-35.515	18.713	1.00	57.71
ATOM	13946	C1	FPL	2095	18.186	-35.911	17.681	1.00	43.74
ATOM	13947	C5	FPL	2095	15.164	-34.356	18.773	1.00	51.72
ATOM	13948	C2	FPL	2095	17.110	-35.890	18.935	1.00	51.75
ATOM	13949	C6	FPL	2095	14.613	-32.498	18.721	1.00	31.70
ATOM	13950	C3	FPL	2095	13.811	-33.090	18.588	1.00	31.93
ATOM	13951	C4	FPL	2095	15.011	-31.167	18.845	1.00	20.56
ATOM	13952	CB	MET	2101	22.414	-8.333	70.247	1.00	66.53
ATOM	13953	CG	MET	2101	22.612	-8.011	71.717	1.00	69.23
ATOM	13954	SD	MET	2101	22.022	-6.373	72.186	1.00	72.42
ATOM	13955	C	MET	2101	23.584	-5.466	73.275	1.00	72.51
ATOM	13956	O	MET	2101	22.138	-6.232	68.953	1.00	62.53
ATOM	13957	O	MET	2101	21.157	-6.314	68.610	1.00	62.31
ATOM	13958	N	MET	2101	24.627	-5.176	68.751	1.00	64.37
ATOM	13959	CA	MET	2101	23.558	-7.436	68.244	1.00	64.23
ATOM	13960	N	LYS	2102	22.975	-5.073	68.085	1.00	60.93
ATOM	13961	CA	LYS	2102	22.817	-3.799	68.834	1.00	57.36
ATOM	13962	CB	LYS	2102	22.919	-3.084	70.157	1.00	58.35
ATOM	13963	CG	LYS	2102	20.762	-3.591	70.863	1.00	60.33
ATOM	13964	CD	LYS	2102	19.498	-3.250	70.117	1.00	61.61
ATOM	13965	CE	LYS	2102	18.196	-3.693	70.111	1.00	62.35

ATCM	13966	NZ	LYS	2102	18.073	-1.296	69.354	1.00	63.75
ATCM	13967	C	LYS	2102	23.179	-2.896	67.957	1.00	54.18
ATCM	13968	O	LYS	2102	23.678	-1.865	62.412	1.00	54.59
ATCM	13969	N	PRO	2103	23.371	-5.276	66.685	1.00	50.17
ATCM	13970	CD	PRO	2103	23.878	-2.346	65.660	1.00	49.96
ATCM	13971	CA	PRO	2103	23.830	-4.484	63.053	1.00	46.64
ATCM	13972	CB	PRO	2103	23.603	-4.032	63.620	1.00	47.38
ATCM	13973	CG	PRO	2103	23.801	-5.176	64.386	1.00	48.98
ATCM	13974	C	PRO	2103	23.794	-5.672	66.131	1.00	48.70
ATCM	13975	O	PRO	2103	24.924	-5.526	66.596	1.00	41.32
ATCM	13976	N	THR	2104	23.324	-6.821	63.662	1.00	38.31
ATCM	13977	CA	THR	2104	24.144	-8.045	65.662	1.00	35.06
ATCM	13978	CB	THR	2104	23.259	-9.309	65.701	1.00	35.04
ATCM	13979	CG1	THR	2104	23.447	-9.186	66.175	1.00	34.66
ATCM	13980	CG2	THR	2104	24.116	-10.561	65.714	1.00	34.54
ATCM	13981	C	THR	2104	24.981	-8.080	64.384	1.00	33.55
ATCM	13982	O	THR	2104	24.451	-7.871	63.791	1.00	31.34
ATCM	13983	N	THR	2105	26.279	-8.340	64.521	1.00	31.77
ATCM	13984	CA	THR	2105	23.151	-8.394	63.865	1.00	30.17
ATCM	13985	CB	THR	2105	23.121	-9.153	65.236	1.00	30.12
ATCM	13986	CG1	THR	2105	23.999	-7.117	64.471	1.00	28.16
ATCM	13987	CG2	THR	2105	23.130	-9.374	63.366	1.00	28.35
ATCM	13988	C	THR	2105	23.311	-9.386	63.395	1.00	28.16
ATCM	13989	O	THR	2105	23.964	-10.374	64.781	1.00	28.05
ATCM	13990	CA	ILE	2106	23.798	-9.337	62.197	1.00	28.45
ATCM	13991	N	ILE	2106	23.663	-11.134	62.162	1.00	28.68
ATCM	13992	CB	ILE	2106	23.323	-10.411	60.893	1.00	28.82
ATCM	13993	CG1	ILE	2106	23.183	-11.111	60.698	1.00	28.12
ATCM	13994	CG2	ILE	2106	23.633	-10.613	59.681	1.00	28.64
ATCM	13995	CL1	ILE	2106	23.469	-10.417	58.493	1.00	28.18
ATCM	13996	C	ILE	2106	23.599	-11.153	60.764	1.00	28.36
ATCM	13997	O	ILE	2106	23.944	-13.164	61.833	1.00	28.15
ATCM	13998	N	SEP	2107	21.000	-9.411	62.854	1.00	28.15
ATCM	13999	CA	SEP	2107	21.897	-9.413	63.007	1.00	28.81
ATCM	14000	CB	SEP	2107	21.058	-8.333	61.421	1.00	28.24
ATCM	14001	CG	SEP	2107	21.543	-7.368	64.381	1.00	24.72
ATCM	14002	C	SEP	2107	21.136	-10.333	66.171	1.00	28.75
ATCM	14003	O	SEP	2107	21.131	-11.134	66.904	1.00	28.24
ATCM	14004	N	LEU	2108	20.004	-10.333	66.348	1.00	28.42
ATCM	14005	CA	LEU	2108	23.413	-11.333	67.436	1.00	28.77
ATCM	14006	CB	LEU	2108	22.923	-11.334	67.117	1.00	29.08
ATCM	14007	CG	LEU	2108	22.356	-10.333	68.385	1.00	28.78
ATCM	14008	CD1	LEU	2108	23.833	-10.333	68.607	1.00	28.38
ATCM	14009	CD2	LEU	2108	22.851	-11.333	69.983	1.00	22.44
ATCM	14010	C	LEU	2108	23.601	-11.874	67.167	1.00	28.98
ATCM	14011	O	LEU	2108	23.943	-11.333	68.714	1.00	28.71
ATCM	14012	N	LEU	2109	23.366	-11.333	68.635	1.00	28.45
ATCM	14013	CA	LEU	2109	23.364	-13.333	67.783	1.00	28.36
ATCM	14014	CB	LEU	2109	23.631	-12.111	64.360	1.00	26.96
ATCM	14015	CG	LEU	2109	23.603	-13.333	63.937	1.00	26.16
ATCM	14016	CD1	LEU	2109	23.123	-12.111	61.626	1.00	24.61
ATCM	14017	CD2	LEU	2109	23.631	-12.111	63.346	1.00	23.32
ATCM	14018	C	LEU	2109	23.631	-13.333	63.361	1.00	23.30
ATCM	14019	O	LEU	2109	23.134	-13.333	63.451	1.00	23.30
ATCM	14020	N	GLN	2110	23.773	-13.333	61.567	1.00	21.57
ATCM	14021	CA	GLN	2110	23.393	-13.333	63.631	1.00	23.59
ATCM	14022	CB	GLN	2110	23.131	-13.333	63.611	1.00	22.71
ATCM	14023	CG	GLN	2110	23.593	-13.333	64.491	1.00	20.40
ATCM	14024	CD	GLN	2110	23.773	-13.333	63.894	1.00	21.71
ATCM	14025	OR1	GLN	2110	23.573	-13.333	64.303	1.00	22.12
ATCM	14026	NE2	GLN	2110	23.153	-14.333	62.645	1.00	22.57
ATCM	14027	C	GLN	2110	23.613	-14.333	67.173	1.00	27.51
ATCM	14028	O	GLN	2110	24.441	-13.333	67.583	1.00	29.31
ATCM	14029	N	LYS	2111	23.951	-13.333	67.987	1.00	28.46
ATCM	14030	CA	LYS	2111	23.157	-13.333	69.430	1.00	29.03
ATCM	14031	CB	LYS	2111	23.407	-12.334	70.098	1.00	21.13
ATCM	14032	CG	LYS	2111	23.493	-12.333	71.621	1.00	24.90
ATCM	14033	CD	LYS	2111	23.373	-12.333	72.275	1.00	25.16
ATCM	14034	CE	LYS	2111	23.459	-10.517	71.353	1.00	26.74
ATCM	14035	NZ	LYS	2111	23.493	-9.733	72.674	1.00	27.23
ATCM	14036	C	LYS	2111	23.637	-15.333	69.389	1.00	22.63
ATCM	14037	O	LYS	2111	23.282	-15.333	70.825	1.00	22.39
ATCM	14038	N	TYR	2112	23.463	-15.711	69.521	1.00	28.15
ATCM	14039	CA	TYR	2112	23.845	-16.333	69.370	1.00	22.94
ATCM	14040	CB	TYR	2112	23.536	-17.163	69.256	1.00	29.49
ATCM	14041	CG	TYR	2112	23.423	-16.379	69.255	1.00	21.03
ATCM	14042	CD	TYR	2112	23.132	-16.333	69.191	1.00	23.12

ATOM	14043	CE1	TYF	2112	26.106	-15.461	69.569	1.00	43.58
ATOM	14044	CD2	TYF	2112	28.544	-15.488	70.897	1.00	42.83
ATOM	14045	CE2	TYF	2112	27.503	-14.695	71.374	1.00	43.95
ATOM	14046	CZ	TYF	2112	26.288	-14.687	70.507	1.00	44.41
ATOM	14047	OH	TYF	2112	25.256	-13.312	71.176	1.00	46.08
ATOM	14048	C	TYF	2112	31.725	-18.190	69.761	1.00	37.30
ATOM	14049	O	TYF	2112	31.765	-19.380	70.610	1.00	35.99
ATOM	14050	N	LYS	2113	32.417	-18.354	68.628	1.00	36.90
ATOM	14051	CA	LYS	2113	33.280	-19.300	68.567	1.00	38.11
ATOM	14052	CB	LYS	2113	33.784	-19.378	66.914	1.00	36.95
ATOM	14053	CG	LYS	2113	34.652	-20.379	66.560	1.00	34.27
ATOM	14054	CD	LYS	2113	34.828	-20.350	65.061	1.00	32.97
ATOM	14055	CE	LYS	2113	35.585	-22.341	64.761	1.00	32.84
ATOM	14056	NZ	LYS	2113	35.432	-22.499	63.348	1.00	30.32
ATOM	14057	C	LYS	2113	34.465	-19.411	69.328	1.00	38.79
ATOM	14058	O	LYS	2113	34.891	-20.471	69.782	1.00	38.16
ATOM	14059	N	GLN	2114	34.988	-18.219	69.639	1.00	40.34
ATOM	14060	CA	GLN	2114	36.116	-18.110	70.157	1.00	42.52
ATOM	14061	CB	GLN	2114	36.354	-16.633	70.657	1.00	44.16
ATOM	14062	CG	GLN	2114	37.345	-16.313	68.780	1.00	48.37
ATOM	14063	CD	GLN	2114	37.626	-14.667	69.486	1.00	51.00
ATOM	14064	OE1	GLN	2114	38.351	-14.734	70.186	1.00	53.01
ATOM	14065	NE2	GLN	2114	37.117	-13.881	68.151	1.00	51.71
ATOM	14066	C	GLN	2114	35.736	-18.617	71.847	1.00	42.63
ATOM	14067	O	GLN	2114	36.357	-19.295	72.616	1.00	42.39
ATOM	14068	N	GLU	2115	34.308	-18.310	72.758	1.00	42.61
ATOM	14069	CA	GLU	2115	34.306	-18.345	73.664	1.00	42.34
ATOM	14070	CB	GLU	2115	35.101	-17.736	74.167	1.00	44.37
ATOM	14071	CG	GLU	2115	35.467	-16.381	74.163	1.00	47.31
ATOM	14072	CD	GLU	2115	36.483	-15.348	74.816	1.00	49.37
ATOM	14073	OE1	GLU	2115	35.781	-15.415	74.473	1.00	50.50
ATOM	14074	OE2	GLU	2115	35.921	-14.345	75.674	1.00	52.36
ATOM	14075	C	GLU	2115	35.356	-20.114	73.558	1.00	40.33
ATOM	14076	O	GLU	2115	35.806	-20.474	74.503	1.00	40.15
ATOM	14077	N	LYS	2116	35.416	-20.701	72.368	1.00	39.34
ATOM	14078	CA	LYS	2116	35.819	-21.110	73.130	1.00	38.39
ATOM	14079	CB	LYS	2116	36.578	-23.079	72.923	1.00	40.37
ATOM	14080	CG	LYS	2116	35.649	-23.110	72.540	1.00	42.36
ATOM	14081	CD	LYS	2116	36.113	-23.682	71.075	1.00	45.30
ATOM	14082	CE	LYS	2116	36.679	-21.631	70.646	1.00	47.03
ATOM	14083	NZ	LYS	2116	37.471	-24.431	71.351	1.00	46.32
ATOM	14084	C	LYS	2116	34.337	-21.042	72.493	1.00	36.61
ATOM	14085	O	LYS	2116	30.838	-23.616	73.063	1.00	35.36
ATOM	14086	N	LYS	2117	30.620	-20.902	72.159	1.00	35.40
ATOM	14087	CA	LYS	2117	29.192	-20.908	72.444	1.00	33.94
ATOM	14088	CB	LYS	2117	28.838	-19.370	73.100	1.00	34.83
ATOM	14089	CG	LYS	2117	27.758	-19.334	73.271	1.00	36.44
ATOM	14090	CD	LYS	2117	27.639	-18.365	74.290	1.00	36.88
ATOM	14091	CE	LYS	2117	27.406	-18.329	73.895	1.00	35.51
ATOM	14092	NZ	LYS	2117	27.353	-17.358	73.714	1.00	41.13
ATOM	14093	C	LYS	2117	28.381	-21.137	71.155	1.00	32.80
ATOM	14094	O	LYS	2117	28.339	-20.132	70.300	1.00	31.72
ATOM	14095	N	ARG	2118	27.751	-22.374	71.050	1.00	39.34
ATOM	14096	CA	ARG	2118	26.938	-22.338	69.302	1.00	39.20
ATOM	14097	CB	ARG	2118	26.539	-24.135	64.984	1.00	39.53
ATOM	14098	CG	ARG	2118	27.675	-25.045	64.528	1.00	32.66
ATOM	14099	CD	ARG	2118	27.360	-26.336	64.373	1.00	33.98
ATOM	14100	NE	ARG	2118	27.573	-26.353	71.274	1.00	34.15
ATOM	14101	C1	ARG	2118	27.601	-28.397	71.741	1.00	33.23
ATOM	14102	NH1	ARG	2118	27.437	-29.131	70.318	1.00	33.99
ATOM	14103	NH2	ARG	2118	27.816	-28.321	73.031	1.00	31.99
ATOM	14104	C	ARG	2118	25.703	-21.334	69.800	1.00	38.50
ATOM	14105	O	ARG	2118	24.919	-21.335	70.741	1.00	38.26
ATOM	14106	N	THR	2119	25.546	-21.339	69.647	1.00	37.02
ATOM	14107	CA	THR	2119	24.440	-20.171	63.403	1.00	35.78
ATOM	14108	CB	THR	2119	25.093	-18.316	67.465	1.00	36.66
ATOM	14109	CG	THR	2119	25.831	-18.683	66.710	1.00	38.65
ATOM	14110	CD	THR	2119	25.236	-18.743	65.457	1.00	37.88
ATOM	14111	CDF	THR	2119	27.305	-13.116	66.773	1.00	37.57
ATOM	14112	CE1	THR	2119	25.397	-18.821	64.334	1.00	35.91
ATOM	14113	CE2	THR	2119	27.975	-13.192	65.624	1.00	36.47
ATOM	14114	CZ	THR	2119	27.371	-13.347	64.337	1.00	39.61
ATOM	14115	C	THR	2119	23.464	-20.653	67.351	1.00	34.34
ATOM	14116	O	THR	2119	23.261	-21.375	67.343	1.00	33.38
ATOM	14117	N	ALA	2120	23.186	-20.385	67.513	1.00	33.38
ATOM	14118	CA	ALA	2120	21.161	-21.010	66.577	1.00	33.11
ATOM	14119	CB	ALA	2120	18.389	-21.173	67.343	1.00	33.34

ATOM	14170	C	ALA	2120	20.857	-19.756	65.510	1.00	22.49
ATOM	14171	O	ALA	2120	20.928	-18.553	65.765	1.00	20.69
ATOM	14172	N	THR	2121	20.519	-20.225	64.309	1.00	20.02
ATOM	14173	CA	THR	2121	20.198	-19.350	63.186	1.00	21.76
ATOM	14174	CB	THR	2121	21.314	-19.357	62.125	1.00	22.14
ATOM	14175	OG1	THR	2121	22.552	-18.930	61.734	1.00	27.62
ATOM	14176	CG2	THR	2121	20.987	-18.414	60.985	1.00	29.01
ATOM	14177	C	THR	2121	18.922	-19.922	62.527	1.00	17.16
ATOM	14178	O	THR	2121	18.651	-21.164	62.731	1.00	17.14
ATOM	14179	N	ILE	2122	18.139	-19.161	61.685	1.00	18.16
ATOM	14180	CA	ILE	2122	16.895	-19.508	61.306	1.00	16.98
ATOM	14181	CB	ILE	2122	15.737	-19.454	62.311	1.00	19.66
ATOM	14182	CG2	ILE	2122	15.365	-17.977	62.470	1.00	18.99
ATOM	14183	CG1	ILE	2122	14.516	-20.270	61.856	1.00	20.97
ATOM	14184	CD1	ILE	2122	12.404	-20.310	62.872	1.00	23.82
ATOM	14185	C	ILE	2122	16.545	-18.884	60.010	1.00	16.60
ATOM	14186	O	ILE	2122	17.015	-17.571	59.722	1.00	15.43
ATOM	14187	N	THR	2123	15.743	-19.513	59.166	1.00	18.20
ATOM	14188	CA	THR	2123	15.330	-18.466	57.925	1.00	17.40
ATOM	14189	CB	THR	2123	14.902	-19.554	56.836	1.00	19.52
ATOM	14190	OG1	THR	2123	17.736	-20.811	57.278	1.00	20.73
ATOM	14191	CG2	THR	2123	16.039	-20.636	56.547	1.00	19.30
ATOM	14192	C	THR	2123	14.134	-17.533	58.238	1.00	16.11
ATOM	14193	O	THR	2123	17.173	-18.233	59.151	1.00	17.18
ATOM	14194	N	ALA	2124	12.978	-16.963	57.479	1.00	16.44
ATOM	14195	CA	ALA	2124	12.833	-15.996	57.646	1.00	15.39
ATOM	14196	CB	ALA	2124	13.226	-14.938	58.681	1.00	17.32
ATOM	14197	C	ALA	2124	12.639	-15.336	58.231	1.00	14.87
ATOM	14198	O	ALA	2124	13.539	-15.040	58.556	1.00	13.64
ATOM	14199	N	TYP	2125	11.331	-15.117	58.913	1.00	11.32
ATOM	14200	CA	TYP	2125	10.985	-14.511	58.659	1.00	12.35
ATOM	14201	CB	TYP	2125	10.479	-15.505	57.712	1.00	14.98
ATOM	14202	CG	TYP	2125	11.166	-16.618	57.737	1.00	13.19
ATOM	14203	CD1	TYP	2125	10.502	-18.037	54.464	1.00	15.20
ATOM	14204	CE1	TYP	2125	11.268	-19.230	54.538	1.00	19.14
ATOM	14205	CD2	TYP	2125	12.456	-17.009	55.230	1.00	15.11
ATOM	14206	CE2	TYP	2125	13.122	-18.333	55.351	1.00	16.19
ATOM	14207	CZ	TYP	2125	12.537	-19.581	54.023	1.00	17.19
ATOM	14208	OH	TYR	2125	13.100	-20.539	54.160	1.00	18.13
ATOM	14209	C	TYR	2125	9.957	-13.431	54.753	1.00	14.34
ATOM	14210	O	TYR	2125	9.513	-11.836	53.736	1.00	13.18
ATOM	14211	N	ASP	2126	9.569	-13.039	58.967	1.00	15.12
ATOM	14212	CA	ASP	2126	8.546	-11.865	56.114	1.00	15.32
ATOM	14213	CB	ASP	2126	7.164	-12.582	58.959	1.00	16.11
ATOM	14214	CG	ASP	2126	6.894	-13.517	57.105	1.00	17.23
ATOM	14215	OD1	ASP	2126	6.650	-13.063	58.286	1.00	17.13
ATOM	14216	OD2	ASP	2126	6.665	-14.719	56.837	1.00	17.92
ATOM	14217	C	ASP	2126	9.740	-11.166	57.413	1.00	16.62
ATOM	14218	O	ASP	2126	9.480	-11.549	58.325	1.00	15.22
ATOM	14219	N	TYR	2127	3.045	-10.073	57.475	1.00	15.23
ATOM	14220	CA	TYR	2127	3.120	-9.164	58.641	1.00	17.17
ATOM	14221	CB	TYR	2127	7.276	-7.913	58.197	1.00	17.23
ATOM	14222	CG	TYR	2127	6.932	-7.139	59.641	1.00	17.15
ATOM	14223	CD1	TYR	2127	7.875	-6.111	60.073	1.00	20.35
ATOM	14224	CE1	TYR	2127	7.605	-5.363	61.213	1.00	20.43
ATOM	14225	CD2	TYR	2127	5.832	-7.331	60.179	1.00	20.03
ATOM	14226	CE2	TYR	2127	5.551	-6.539	61.519	1.00	20.06
ATOM	14227	CZ	TYR	2127	6.439	-5.619	61.930	1.00	21.01
ATOM	14228	OH	TYR	2127	6.152	-4.857	63.050	1.00	24.43
ATOM	14229	C	TYR	2127	7.671	-9.837	59.937	1.00	18.30
ATOM	14230	O	TYR	2127	8.354	-9.732	60.351	1.00	17.92
ATOM	14231	N	SER	2128	6.518	-10.457	59.336	1.00	14.07
ATOM	14232	CA	SER	2128	5.943	-11.126	61.125	1.00	21.29
ATOM	14233	CB	SER	2128	4.638	-11.935	60.632	1.00	22.18
ATOM	14234	CG	SER	2128	3.632	-10.872	60.424	1.00	21.45
ATOM	14235	C	SER	2128	6.861	-12.119	61.754	1.00	21.26
ATOM	14236	O	SER	2128	7.154	-11.959	62.343	1.00	20.52
ATOM	14237	N	PHE	2129	7.310	-13.147	61.936	1.00	18.91
ATOM	14238	CA	PHE	2129	8.184	-14.111	61.661	1.00	18.72
ATOM	14239	CB	PHE	2129	8.464	-15.333	60.730	1.00	19.49
ATOM	14240	CG	PHE	2129	7.255	-16.303	60.797	1.00	20.01
ATOM	14241	CD1	PHE	2129	6.312	-16.317	59.772	1.00	18.17
ATOM	14242	CD2	PHE	2129	7.101	-17.146	61.363	1.00	19.74
ATOM	14243	CE1	PHE	2129	5.238	-17.198	59.411	1.00	19.25
ATOM	14244	CE2	PHE	2129	6.030	-18.067	61.307	1.00	20.86
ATOM	14245	CZ	PHE	2129	5.034	-18.576	60.822	1.00	20.11
ATOM	14246	O	PHE	2129	6.532	-17.449	62.009	1.00	17.47

ATOM	14197	O	PHE	2129	10.064	-13.799	63.697	1.00	19.28
ATOM	14198	N	ALA	2130	10.955	-12.599	61.203	1.00	18.95
ATOM	14199	CA	ALA	2130	11.333	-11.958	61.507	1.00	17.77
ATOM	14200	CB	ALA	2130	11.724	-11.307	60.296	1.00	17.98
ATOM	14201	C	ALA	2130	11.347	-11.205	62.839	1.00	20.34
ATOM	14202	O	ALA	2130	13.143	-11.184	63.673	1.00	17.59
ATOM	14203	N	LYS	2131	10.158	-10.465	63.001	1.00	19.48
ATOM	14204	CA	LYS	2131	9.932	-9.692	64.215	1.00	22.35
ATOM	14205	CB	LYS	2131	8.605	-8.300	64.090	1.00	23.83
ATOM	14206	CG	LYS	2131	8.361	-7.979	65.265	1.00	26.46
ATOM	14207	CD	LYS	2131	9.254	-6.793	65.315	1.00	29.95
ATOM	14208	CE	LYS	2131	8.767	-5.317	66.277	1.00	30.64
ATOM	14209	NZ	LYS	2131	8.650	-6.214	67.675	1.00	32.08
ATOM	14210	C	LYS	2131	9.361	-10.627	65.420	1.00	21.60
ATOM	14211	C	LYS	2131	10.447	-10.352	66.469	1.00	24.21
ATOM	14212	N	LEU	2132	9.149	-11.737	65.259	1.00	20.48
ATOM	14213	CA	LEU	2132	8.981	-12.712	66.31	1.00	21.79
ATOM	14214	CB	LEU	2132	8.060	-13.809	65.892	1.00	20.32
ATOM	14215	CG	LEU	2132	7.521	-14.833	66.939	1.00	21.91
ATOM	14216	CD	LEU	2132	6.359	-15.325	68.367	1.00	21.73
ATOM	14217	CE	LEU	2132	8.668	-15.864	67.232	1.00	19.41
ATOM	14218	C	LEU	2132	10.361	-11.335	66.733	1.00	21.65
ATOM	14219	O	LEU	2132	10.554	-13.877	67.954	1.00	20.18
ATOM	14220	N	PHE	2133	11.157	-12.615	65.803	1.00	20.32
ATOM	14221	CA	PHE	2133	12.454	-14.194	68.127	1.00	20.65
ATOM	14222	CB	PHE	2133	13.196	-14.659	64.951	1.00	18.15
ATOM	14223	CG	PHE	2133	12.452	-15.198	64.066	1.00	15.76
ATOM	14224	CD	PHE	2133	11.613	-16.116	64.757	1.00	15.98
ATOM	14225	CE	PHE	2133	12.598	-15.779	62.680	1.00	16.44
ATOM	14226	CH	PHE	2133	10.914	-17.185	63.982	1.00	17.09
ATOM	14227	CH	PHE	2133	11.901	-16.736	61.947	1.00	13.66
ATOM	14228	C	PHE	2133	11.087	-17.053	62.595	1.00	15.97
ATOM	14229	O	PHE	2133	13.344	-12.713	66.875	1.00	20.41
ATOM	14230	C	PHE	2133	13.940	-13.349	67.899	1.00	23.66
ATOM	14231	N	ALA	2134	13.410	-11.991	66.356	1.00	20.80
ATOM	14232	CA	ALA	2134	14.250	-10.932	68.277	1.00	22.59
ATOM	14233	CB	ALA	2134	14.139	-9.695	66.161	1.00	22.94
ATOM	14234	C	ALA	2134	13.759	-10.330	68.417	1.00	25.03
ATOM	14235	O	ALA	2134	14.606	-10.474	69.384	1.00	25.72
ATOM	14236	N	ASP	2135	12.494	-10.719	68.666	1.00	24.88
ATOM	14237	CA	ASP	2135	12.001	-10.471	70.617	1.00	27.36
ATOM	14238	CB	ASP	2135	10.489	-10.116	70.009	1.00	28.36
ATOM	14239	CG	ASP	2135	10.086	-8.473	69.291	1.00	28.77
ATOM	14240	CD	ASP	2135	10.963	-8.137	68.993	1.00	29.20
ATOM	14241	CE	ASP	2135	8.876	-8.908	69.034	1.00	28.65
ATOM	14242	C	ASP	2135	12.334	-11.393	71.000	1.00	27.17
ATOM	14243	O	ASP	2135	12.518	-11.142	72.189	1.00	26.00
ATOM	14244	N	GLU	2136	12.405	-10.328	70.510	1.00	27.96
ATOM	14245	CA	GLU	2136	12.708	-13.654	71.377	1.00	28.37
ATOM	14246	CB	GLU	2136	12.111	-15.347	70.804	1.00	27.56
ATOM	14247	CG	GLU	2136	10.611	-15.341	70.812	1.00	30.49
ATOM	14248	CD	GLU	2136	10.063	-14.819	72.137	1.00	31.36
ATOM	14249	CE	GLU	2136	10.393	-15.441	73.153	1.00	32.34
ATOM	14250	CH	GLU	2136	9.319	-13.816	72.237	1.00	28.17
ATOM	14251	C	GLU	2136	14.187	-11.178	71.623	1.00	29.36
ATOM	14252	O	GLU	2136	14.567	-14.391	72.553	1.00	30.73
ATOM	14253	N	GLY	2137	13.029	-13.581	70.754	1.00	30.45
ATOM	14254	CA	GLY	2137	15.461	-13.738	70.983	1.00	30.66
ATOM	14255	C	GLY	2137	17.255	-11.119	69.754	1.00	29.34
ATOM	14256	O	GLY	2137	13.475	-13.979	69.743	1.00	28.39
ATOM	14257	N	LEU	2138	16.572	-14.607	68.720	1.00	28.35
ATOM	14258	CA	LEU	2138	17.229	-15.093	67.471	1.00	26.93
ATOM	14259	CB	LEU	2138	16.304	-15.885	66.834	1.00	28.35
ATOM	14260	CG	LEU	2138	16.435	-17.385	66.848	1.00	27.76
ATOM	14261	CH	LEU	2138	15.371	-18.123	66.355	1.00	25.33
ATOM	14262	CH	LEU	2138	17.823	-17.907	66.433	1.00	25.12
ATOM	14263	C	LEU	2138	17.590	-13.765	66.634	1.00	27.25
ATOM	14264	O	LEU	2138	13.708	-14.005	66.183	1.00	27.95
ATOM	14265	N	ASN	2139	13.886	-13.508	66.536	1.00	24.39
ATOM	14266	CA	ASN	2139	12.344	-12.335	65.812	1.00	25.70
ATOM	14267	CB	ASN	2139	10.004	-11.464	66.371	1.00	25.76
ATOM	14268	CG	ASN	2139	13.509	-11.036	67.982	1.00	31.16
ATOM	14269	CH	ASN	2139	18.415	-19.458	67.334	1.00	34.92
ATOM	14270	CH	ASN	2139	20.125	-11.379	69.138	1.00	33.28
ATOM	14271	C	ASN	2139	20.112	-12.664	64.582	1.00	30.12
ATOM	14272	O	ASN	2139	17.387	-11.834	63.315	1.00	21.64
ATOM	14273	N	VAL	2140	20.929	-13.905	64.753	1.00	17.90

ATCM	14274	CA	VAL	2140	20.703	-14.304	62.860	1.00	17.14
ATCM	14275	CB	VAL	2140	21.860	-15.387	63.114	1.00	19.66
ATCM	14276	CG1	VAL	2140	22.638	-15.512	61.834	1.00	17.34
ATCM	14277	CG2	VAL	2140	22.770	-14.735	64.215	1.00	21.32
ATCM	14278	C	VAL	2140	19.682	-14.991	61.969	1.00	14.62
ATCM	14279	O	VAL	2140	19.724	-16.685	62.773	1.00	14.94
ATCM	14280	N	MET	2141	19.324	-14.338	60.572	1.00	15.56
ATCM	14281	CA	MET	2141	18.532	-14.888	59.871	1.00	15.34
ATCM	14282	CB	MET	2141	17.666	-14.674	60.624	1.00	17.74
ATCM	14283	CG	MET	2141	16.383	-14.668	61.382	1.00	20.01
ATCM	14284	SD	MET	2141	15.066	-12.882	61.483	1.00	22.65
ATCM	14285	CE	MET	2141	15.551	-11.442	62.941	1.00	20.39
ATCM	14286	C	MET	2141	18.827	-14.969	58.548	1.00	14.81
ATCM	14287	O	MET	2141	19.577	-14.136	58.069	1.00	14.48
ATCM	14288	N	LEU	2142	18.552	-16.640	57.869	1.00	15.04
ATCM	14289	CA	LEU	2142	18.781	-16.250	56.483	1.00	15.92
ATCM	14290	CB	LEU	2142	19.475	-17.669	56.312	1.00	17.73
ATCM	14291	CG	LEU	2142	19.665	-18.146	54.937	1.00	23.22
ATCM	14292	CD1	LEU	2142	18.848	-18.861	54.756	1.00	25.80
ATCM	14293	CD2	LEU	2142	20.776	-15.632	54.136	1.00	22.00
ATCM	14294	C	LEU	2142	17.225	-16.182	55.121	1.00	14.66
ATCM	14295	O	LEU	2142	16.170	-16.386	55.781	1.00	14.54
ATCM	14296	N	VAL	2142	17.926	-15.135	54.782	1.00	13.73
ATCM	14297	CA	VAL	2142	16.507	-15.136	53.856	1.00	14.55
ATCM	14298	CB	VAL	2142	16.360	-13.854	53.162	1.00	15.17
ATCM	14299	CG1	VAL	2142	15.380	-13.884	52.063	1.00	17.16
ATCM	14300	CG2	VAL	2142	16.776	-12.122	51.859	1.00	16.63
ATCM	14301	C	VAL	2142	17.726	-13.953	51.400	1.00	14.62
ATCM	14302	O	VAL	2142	17.874	-15.463	51.782	1.00	15.21
ATCM	14303	N	GLY	2144	16.443	-17.282	52.474	1.00	16.51
ATCM	14304	CA	GLY	2144	17.539	-18.168	51.454	1.00	16.30
ATCM	14305	C	GLY	2144	16.441	-18.584	50.339	1.00	16.58
ATCM	14306	O	GLY	2144	15.111	-18.095	50.435	1.00	15.97
ATCM	14307	N	ASP	2145	17.669	-19.123	49.254	1.00	15.26
ATCM	14308	CA	ASP	2145	16.103	-19.134	48.117	1.00	16.47
ATCM	14309	CB	ASP	2145	17.666	-19.346	48.875	1.00	16.13
ATCM	14310	CG	ASP	2145	18.774	-20.849	47.765	1.00	17.25
ATCM	14311	OD1	ASP	2145	18.119	-21.473	48.182	1.00	15.53
ATCM	14312	OD2	ASP	2145	18.223	-21.122	46.159	1.00	20.23
ATCM	14313	C	ASP	2145	15.139	-20.665	48.405	1.00	14.31
ATCM	14314	O	ASP	2145	14.536	-21.133	47.332	1.00	13.80
ATCM	14315	N	SER	2146	15.380	-21.152	49.842	1.00	15.43
ATCM	14316	CA	SER	2146	14.475	-22.291	50.757	1.00	13.71
ATCM	14317	CB	SER	2146	14.764	-22.667	51.408	1.00	14.86
ATCM	14318	OG	SER	2146	14.708	-21.562	52.384	1.00	15.34
ATCM	14319	C	SER	2146	13.950	-21.723	49.333	1.00	11.18
ATCM	14320	O	SER	2146	12.066	-22.493	49.333	1.00	12.35
ATCM	14321	N	LEU	2147	12.911	-20.413	49.650	1.00	13.53
ATCM	14322	CA	LEU	2147	11.580	-19.727	49.343	1.00	15.66
ATCM	14323	CB	LEU	2147	11.676	-18.276	49.264	1.00	14.48
ATCM	14324	CG	LEU	2147	12.308	-17.474	48.863	1.00	15.80
ATCM	14325	CD1	LEU	2147	11.435	-17.211	47.718	1.00	12.97
ATCM	14326	CD2	LEU	2147	12.314	-16.144	49.441	1.00	14.61
ATCM	14327	C	LEU	2147	10.901	-20.192	48.632	1.00	15.62
ATCM	14328	O	LEU	2147	9.673	-20.120	48.406	1.00	13.70
ATCM	14329	N	GLY	2148	11.639	-20.618	47.556	1.00	13.80
ATCM	14330	CA	GLY	2148	11.129	-21.927	46.281	1.00	16.13
ATCM	14331	C	GLY	2148	10.168	-22.193	46.443	1.00	15.12
ATCM	14332	O	GLY	2148	9.347	-21.374	45.664	1.00	15.16
ATCM	14333	N	MET	2149	10.384	-22.984	47.190	1.00	16.51
ATCM	14334	CA	MET	2149	9.613	-24.142	47.732	1.00	18.26
ATCM	14335	CB	MET	2149	10.420	-25.343	48.105	1.00	18.59
ATCM	14336	CG	MET	2149	11.321	-25.737	46.779	1.00	21.21
ATCM	14337	SD	MET	2149	12.577	-27.309	47.403	1.00	26.89
ATCM	14338	CE	MET	2149	11.515	-28.406	47.735	1.00	21.42
ATCM	14339	C	MET	2149	8.525	-23.567	48.336	1.00	16.17
ATCM	14340	O	MET	2149	7.530	-24.672	48.643	1.00	18.00
ATCM	14341	N	THR	2150	9.000	-23.574	49.974	1.00	17.61
ATCM	14342	CA	THR	2150	8.125	-23.691	51.106	1.00	14.06
ATCM	14343	CB	THR	2150	8.917	-22.766	52.375	1.00	21.48
ATCM	14344	CG1	THR	2150	8.052	-22.169	53.500	1.00	23.01
ATCM	14345	CG2	THR	2150	9.319	-21.651	52.296	1.00	16.87
ATCM	14346	C	THR	2150	7.189	-21.893	50.948	1.00	19.69
ATCM	14347	O	THR	2150	6.665	-21.893	51.495	1.00	19.74
ATCM	14348	N	VAL	2151	7.631	-20.873	50.212	1.00	15.32
ATCM	14349	CA	VAL	2151	6.816	-19.667	50.000	1.00	15.78
ATCM	14350	CB	VAL	2151	7.660	-18.455	50.162	1.00	14.02

ATOM	14351	CG1	VAL	2151	6.850	-17.167	49.740	1.00	14.83
ATOM	14352	CG2	VAL	2151	8.092	-18.258	51.629	1.00	16.73
ATOM	14353	C	VAL	2151	6.122	-19.687	48.634	1.00	15.03
ATOM	14354	O	VAL	2151	4.892	-19.574	48.554	1.00	12.62
ATOM	14355	N	GLN	2152	6.898	-19.821	47.562	1.00	12.81
ATOM	14356	CA	GLN	2152	6.337	-19.619	46.205	1.00	11.39
ATOM	14357	CB	GLN	2152	7.411	-19.439	45.195	1.00	9.78
ATOM	14358	CG	GLN	2152	8.125	-18.150	45.545	1.00	11.69
ATOM	14359	CD	GLN	2152	9.274	-17.866	44.616	1.00	12.80
ATOM	14360	OE1	GLN	2152	9.733	-18.750	43.991	1.00	13.02
ATOM	14361	NE2	GLN	2152	9.765	-16.630	44.639	1.00	10.46
ATOM	14362	C	GLN	2152	5.673	-21.127	45.353	1.00	13.36
ATOM	14363	O	GLN	2152	4.810	-21.127	44.637	1.00	11.82
ATOM	14364	N	GLY	2153	6.089	-22.244	46.268	1.00	14.36
ATOM	14365	CA	GLY	2153	5.485	-22.917	46.020	1.00	13.48
ATOM	14366	C	GLY	2153	6.071	-24.295	44.812	1.00	14.85
ATOM	14367	O	GLY	2153	5.409	-23.187	44.168	1.00	13.64
ATOM	14368	N	HIS	2154	7.301	-23.974	44.464	1.00	14.25
ATOM	14369	CA	HIS	2154	7.963	-24.675	43.723	1.00	14.12
ATOM	14370	CB	HIS	2154	8.061	-23.759	42.755	1.00	13.89
ATOM	14371	CG	HIS	2154	8.556	-21.555	42.100	1.00	16.32
ATOM	14372	CH3	HIS	2154	8.713	-21.251	42.417	1.00	15.11
ATOM	14373	NE1	HIS	2154	10.799	-21.872	40.949	1.00	16.63
ATOM	14374	CE1	HIS	2154	11.519	-21.732	40.595	1.00	18.58
ATOM	14375	NE2	HIS	2154	8.066	-20.812	41.474	1.00	18.93
ATOM	14376	C	HIS	2154	8.588	-21.491	43.836	1.00	17.17
ATOM	14377	O	HIS	2154	8.370	-20.702	45.042	1.00	17.96
ATOM	14378	N	ASP	2155	8.915	-20.668	42.639	1.00	18.37
ATOM	14379	CA	ASP	2155	9.907	-20.183	43.271	1.00	21.77
ATOM	14380	CB	ASP	2155	9.344	-20.341	42.041	1.00	20.36
ATOM	14381	CG	ASP	2155	10.020	-18.659	40.721	1.00	30.46
ATOM	14382	OD1	ASP	2155	11.238	-18.378	40.789	1.00	30.44
ATOM	14383	OD2	ASP	2155	9.331	-18.762	39.727	1.00	38.63
ATOM	14384	C	ASP	2155	10.986	-20.160	43.568	1.00	18.34
ATOM	14385	O	ASP	2155	11.600	-20.027	43.892	1.00	19.88
ATOM	14386	N	SER	2156	11.559	-20.178	42.987	1.00	17.54
ATOM	14387	CA	SER	2156	12.968	-20.667	43.692	1.00	14.88
ATOM	14388	CB	SER	2156	13.847	-20.143	42.535	1.00	16.37
ATOM	14389	CG	SER	2156	12.813	-20.362	41.438	1.00	13.39
ATOM	14390	C	SER	2156	13.215	-20.187	43.923	1.00	15.41
ATOM	14391	O	SER	2156	12.300	-20.372	43.791	1.00	14.28
ATOM	14392	N	THR	2157	14.449	-20.333	44.267	1.00	13.49
ATOM	14393	CA	THR	2157	14.773	-20.333	44.614	1.00	14.04
ATOM	14394	CB	THR	2157	15.901	-20.292	45.358	1.00	14.05
ATOM	14395	CG1	THR	2157	17.117	-20.325	45.018	1.00	16.03
ATOM	14396	CG2	THR	2157	15.550	-21.034	46.839	1.00	16.22
ATOM	14397	C	THR	2157	15.219	-20.663	45.270	1.00	13.58
ATOM	14398	O	THR	2157	15.329	-21.142	45.313	1.00	13.41
ATOM	14399	N	LEU	2158	15.453	-20.374	42.162	1.00	13.34
ATOM	14400	CA	LEU	2158	15.923	-20.722	40.937	1.00	12.31
ATOM	14401	CB	LEU	2158	16.087	-20.761	39.898	1.00	11.42
ATOM	14402	CG	LEU	2158	17.337	-20.646	39.959	1.00	16.63
ATOM	14403	CD1	LEU	2158	17.106	-20.616	41.104	1.00	13.91
ATOM	14404	CD2	LEU	2158	17.631	-20.109	38.969	1.00	13.40
ATOM	14405	C	LEU	2158	15.166	-21.593	40.113	1.00	12.93
ATOM	14406	O	LEU	2158	15.779	-20.323	40.304	1.00	11.95
ATOM	14407	N	PRO	2159	13.825	-21.526	40.137	1.00	11.73
ATOM	14408	CA	PRO	2159	12.922	-21.627	40.862	1.00	13.77
ATOM	14409	CB	PRO	2159	13.060	-20.378	39.941	1.00	11.90
ATOM	14410	CG	PRO	2159	11.629	-20.913	38.814	1.00	13.29
ATOM	14411	CH3	PRO	2159	11.619	-20.891	41.205	1.00	12.86
ATOM	14412	C	PRO	2159	13.181	-19.678	40.737	1.00	8.57
ATOM	14413	O	PRO	2159	13.796	-19.016	40.253	1.00	10.80
ATOM	14414	N	VAL	2160	13.717	-19.147	41.749	1.00	8.73
ATOM	14415	CA	VAL	2160	13.856	-19.839	41.764	1.00	10.64
ATOM	14416	CB	VAL	2160	14.334	-19.395	44.191	1.00	7.98
ATOM	14417	CG1	VAL	2160	14.487	-19.763	45.847	1.00	8.24
ATOM	14418	CG2	VAL	2160	13.639	-18.249	44.843	1.00	9.23
ATOM	14419	C	VAL	2160	14.907	-19.996	42.109	1.00	10.30
ATOM	14420	O	VAL	2160	15.966	-19.592	41.813	1.00	12.24
ATOM	14421	N	THR	2161	14.373	-19.718	41.943	1.00	10.58
ATOM	14422	CA	THR	2161	15.193	-14.686	41.310	1.00	13.51
ATOM	14423	CB	THR	2161	14.344	-19.853	40.321	1.00	17.36
ATOM	14424	C	THR	2161	13.716	-14.733	38.447	1.00	28.18
ATOM	14425	CG	THR	2161	15.234	-12.954	39.478	1.00	19.77
ATOM	14426	O	THR	2161	15.811	-13.747	41.335	1.00	10.55
ATOM	14427	N	THR	2161	15.317	-13.733	40.436	1.00	11.77

ATOM	14428	N	VAL	2162	16.777	-12.940	41.897	1.00	12.13
ATOM	14429	CA	VAL	2162	17.435	-11.979	42.778	1.00	13.71
ATOM	14430	CB	VAL	2162	18.538	-11.216	42.019	1.00	15.08
ATOM	14431	CG1	VAL	2162	19.051	-10.057	42.858	1.00	16.93
ATOM	14432	CG2	VAL	2162	19.674	-11.173	41.676	1.00	18.68
ATOM	14433	C	VAL	2162	18.367	-11.000	43.310	1.00	13.50
ATOM	14434	O	VAL	2162	16.426	-10.571	44.469	1.00	14.68
ATOM	14435	N	ALA	2163	15.429	-10.662	42.455	1.00	13.50
ATOM	14436	CA	ALA	2163	14.342	-9.751	42.825	1.00	12.58
ATOM	14437	CB	ALA	2163	13.454	-9.473	41.666	1.00	13.58
ATOM	14438	C	ALA	2163	13.527	-10.752	41.956	1.00	12.11
ATOM	14439	O	ALA	2163	13.094	-9.637	44.872	1.00	10.50
ATOM	14440	N	ASP	2164	13.287	-11.664	41.888	1.00	10.69
ATOM	14441	CA	ASP	2164	12.515	-12.340	44.938	1.00	12.02
ATOM	14442	CB	ASP	2164	12.182	-12.822	44.607	1.00	10.77
ATOM	14443	CG	ASP	2164	11.413	-14.028	43.773	1.00	14.18
ATOM	14444	CD1	ASP	2164	10.593	-13.141	45.044	1.00	14.70
ATOM	14445	OD2	ASP	2164	11.546	-15.107	42.748	1.00	14.94
ATOM	14446	C	ASP	2164	13.232	-11.153	46.260	1.00	17.23
ATOM	14447	O	ASP	2164	12.496	-11.961	47.121	1.00	11.78
ATOM	14448	N	LEU	2165	14.574	-11.103	46.121	1.00	17.18
ATOM	14449	CA	LEU	2165	15.263	-11.429	47.371	1.00	11.11
ATOM	14450	CB	LEU	2165	16.227	-12.315	47.163	1.00	10.98
ATOM	14451	CG2	LEU	2165	17.468	-11.571	48.418	1.00	12.50
ATOM	14452	CG1	LEU	2165	16.805	-14.187	46.754	1.00	9.88
ATOM	14453	CD1	LEU	2165	16.131	-15.194	47.819	1.00	13.13
ATOM	14454	C	LEU	2165	15.117	-11.024	48.041	1.00	11.11
ATOM	14455	O	LEU	2165	15.115	-11.861	49.149	1.00	12.10
ATOM	14456	N	ALA	2166	15.478	-11.016	47.191	1.00	11.79
ATOM	14457	CA	ALA	2166	15.471	-9.618	47.614	1.00	11.90
ATOM	14458	CB	ALA	2166	15.342	-9.710	46.479	1.00	13.00
ATOM	14459	C	ALA	2166	14.114	-8.114	48.165	1.00	11.49
ATOM	14460	O	ALA	2166	24.189	-9.452	49.178	1.00	12.63
ATOM	14461	N	TYR	2167	13.226	-8.704	47.778	1.00	12.03
ATOM	14462	CA	TYR	2167	11.310	-8.348	48.233	1.00	12.43
ATOM	14463	CB	TYR	2167	10.711	-8.188	47.554	1.00	13.48
ATOM	14464	CG	TYR	2167	9.381	-8.135	47.835	1.00	12.78
ATOM	14465	CD1	TYR	2167	8.345	-8.348	47.741	1.00	13.08
ATOM	14466	CE1	TYR	2167	7.319	-8.495	48.113	1.00	14.62
ATOM	14467	CD2	TYR	2167	8.345	-11.376	48.189	1.00	11.65
ATOM	14468	CE2	TYR	2167	7.316	-11.333	48.731	1.00	11.81
ATOM	14469	CZ	TYR	2167	6.617	-9.038	48.657	1.00	12.06
ATOM	14470	OH	TYR	2167	5.303	-8.988	49.050	1.00	13.51
ATOM	14471	C	TYR	2167	11.578	-8.966	49.660	1.00	13.47
ATOM	14472	O	TYR	2167	11.390	-8.342	50.585	1.00	14.07
ATOM	14473	N	HIS	2168	11.312	-11.347	49.804	1.00	13.89
ATOM	14474	CA	HIS	2168	11.413	-10.490	51.130	1.00	13.79
ATOM	14475	CB	HIS	2168	11.343	-12.403	50.909	1.00	12.97
ATOM	14476	CG	HIS	2168	10.711	-11.914	50.789	1.00	14.62
ATOM	14477	CD2	HIS	2168	10.411	-12.400	49.012	1.00	14.57
ATOM	14478	ND1	HIS	2168	9.554	-12.320	50.956	1.00	13.84
ATOM	14479	CE1	HIS	2168	8.641	-12.706	56.162	1.00	14.74
ATOM	14480	NE2	HIS	2168	9.145	-12.325	48.614	1.00	11.68
ATOM	14481	C	HIS	2168	12.870	-10.356	52.134	1.00	13.33
ATOM	14482	O	HIS	2168	12.614	-10.331	53.173	1.00	13.33
ATOM	14483	N	THR	2169	14.011	-8.413	51.133	1.00	14.47
ATOM	14484	CA	THR	2169	15.068	-8.369	52.143	1.00	13.34
ATOM	14485	CB	THR	2169	16.367	-8.650	51.613	1.00	16.23
ATOM	14486	CG1	THR	2169	16.949	-10.125	51.333	1.00	13.29
ATOM	14487	CG2	THR	2169	17.309	-8.397	52.345	1.00	13.61
ATOM	14488	C	THR	2169	14.617	-8.350	53.073	1.00	13.47
ATOM	14489	O	THR	2169	14.784	-7.857	54.283	1.00	14.93
ATOM	14490	N	GLA	2170	14.015	-7.135	52.094	1.00	13.56
ATOM	14491	CA	GLA	2170	13.567	-5.836	52.840	1.00	13.22
ATOM	14492	CB	GLA	2170	13.018	-4.939	51.723	1.00	12.46
ATOM	14493	C	GLA	2170	12.448	-5.141	53.905	1.00	15.13
ATOM	14494	O	GLA	2170	12.467	-5.471	54.946	1.00	14.11
ATOM	14495	N	ALA	2171	11.645	-7.113	53.657	1.00	15.33
ATOM	14496	CA	ALA	2171	10.589	-7.447	54.813	1.00	15.79
ATOM	14497	CB	ALA	2171	9.646	-8.509	54.933	1.00	15.19
ATOM	14498	C	ALA	2171	11.163	-7.932	55.926	1.00	16.82
ATOM	14499	O	ALA	2171	10.743	-7.509	57.010	1.00	16.97
ATOM	14500	N	VAL	2172	12.146	-8.824	55.868	1.00	16.63
ATOM	14501	CA	VAL	2172	12.771	-9.341	52.085	1.00	16.13
ATOM	14502	CB	VAL	2172	13.769	-10.494	52.767	1.00	17.51
ATOM	14503	CG1	VAL	2172	14.816	-11.818	52.159	1.00	14.14
ATOM	14504	CG2	VAL	2172	12.999	-11.731	53.158	1.00	16.81

ATOM	14505	C	VAL	2172	13.484	-8.213	57.831	1.00	16.90
ATOM	14506	O	VAL	2172	13.432	-8.155	59.063	1.00	18.87
ATOM	14507	N	ARG	2172	14.148	-7.321	57.089	1.00	16.84
ATOM	14508	CA	ARG	2172	14.860	-6.195	57.689	1.00	17.87
ATOM	14509	CB	ARG	2172	15.594	-5.580	56.613	1.00	18.06
ATOM	14510	CG	ARG	2172	16.334	-4.149	57.156	1.00	17.62
ATOM	14511	CD	ARG	2172	17.229	-4.512	58.340	1.00	19.45
ATOM	14512	NE	ARG	2172	18.482	-5.161	57.929	1.00	18.22
ATOM	14513	CZ	ARG	2172	19.265	-5.821	58.740	1.00	18.73
ATOM	14514	NH1	ARG	2172	18.946	-6.037	60.017	1.00	17.92
ATOM	14515	NH2	ARG	2172	20.375	-6.418	58.274	1.00	17.07
ATOM	14516	C	ARG	2172	13.915	-5.281	58.467	1.00	19.95
ATOM	14517	O	ARG	2172	14.280	-4.752	59.523	1.00	18.61
ATOM	14518	N	ARG	2174	12.707	-5.089	57.945	1.00	18.95
ATOM	14519	CA	ARG	2174	11.722	-4.760	58.628	1.00	20.06
ATOM	14520	CP	ARG	2174	10.417	-4.042	57.754	1.00	18.51
ATOM	14521	CG	ARG	2174	10.726	-3.506	56.463	1.00	20.20
ATOM	14522	CP	ARG	2174	9.422	-3.856	55.813	1.00	22.84
ATOM	14523	NE	ARG	2174	9.707	-3.191	54.558	1.00	24.12
ATOM	14524	CZ	ARG	2174	9.783	-3.566	53.575	1.00	26.25
ATOM	14525	NH1	ARG	2174	9.516	-3.107	53.168	1.00	23.47
ATOM	14526	NH2	ARG	2174	10.109	-3.682	52.317	1.00	26.61
ATOM	14527	C	ARG	2174	11.319	-4.936	59.919	1.00	19.12
ATOM	14528	O	ARG	2174	11.045	-4.344	60.932	1.00	27.06
ATOM	14529	N	GLY	2175	11.289	-6.364	59.867	1.00	18.71
ATOM	14530	CA	GLY	2175	10.910	-5.660	61.054	1.00	19.18
ATOM	14531	C	GLY	2175	11.974	-7.126	62.115	1.00	19.83
ATOM	14532	O	GLY	2175	11.662	-6.177	63.111	1.00	19.19
ATOM	14533	N	ALA	2176	10.275	-5.126	61.655	1.00	17.35
ATOM	14534	CA	ALA	2176	14.335	-5.101	62.619	1.00	19.21
ATOM	14535	CB	ALA	2176	14.875	-5.644	62.690	1.00	20.39
ATOM	14536	C	ALA	2176	15.481	-6.078	62.155	1.00	20.49
ATOM	14537	O	ALA	2176	16.462	-6.728	61.560	1.00	20.07
ATOM	14538	N	PRO	2177	15.254	-4.971	62.444	1.00	21.58
ATOM	14539	CT	PRO	2177	14.296	-4.391	63.364	1.00	22.33
ATOM	14540	CA	PRO	2177	16.318	-5.947	62.064	1.00	22.64
ATOM	14541	CF	PRO	2177	15.613	-5.655	62.514	1.00	22.85
ATOM	14542	CG	PRO	2177	14.994	-5.388	63.755	1.00	25.21
ATOM	14543	C	PRO	2177	15.774	-4.683	62.631	1.00	22.75
ATOM	14544	O	PRO	2177	16.663	-5.437	62.119	1.00	23.85
ATOM	14545	N	ASN	2178	17.902	-4.910	63.654	1.00	22.75
ATOM	14546	CA	ASN	2178	19.222	-5.085	64.255	1.00	24.54
ATOM	14547	CB	ASN	2178	19.136	-4.540	65.747	1.00	28.89
ATOM	14548	CG	ASN	2178	18.808	-3.287	65.991	1.00	31.12
ATOM	14549	OD1	ASN	2178	19.380	-2.589	65.380	1.00	32.75
ATOM	14550	ND2	ASN	2178	17.861	-3.049	66.897	1.00	35.54
ATOM	14551	C	ASN	2178	19.614	-6.482	64.078	1.00	22.89
ATOM	14552	O	ASN	2178	20.908	-6.071	64.575	1.00	21.60
ATOM	14553	N	CYS	2179	19.105	-7.143	63.359	1.00	21.70
ATOM	14554	CA	CYS	2179	19.578	-8.708	63.356	1.00	19.54
ATOM	14555	CB	CYS	2179	18.419	-9.616	62.719	1.00	22.19
ATOM	14556	CG	CYS	2179	18.150	-9.714	60.895	1.00	21.61
ATOM	14557	C	CYS	2179	20.686	-8.581	62.114	1.00	18.00
ATOM	14558	O	CYS	2179	20.898	-7.847	61.136	1.00	16.56
ATOM	14559	N	LEU	2180	21.427	-9.880	62.544	1.00	17.26
ATOM	14560	CA	LEU	2180	21.466	-10.121	61.141	1.00	18.91
ATOM	14561	CL	LEU	2180	23.959	-11.646	61.684	1.00	18.50
ATOM	14562	CG	LEU	2180	24.622	-11.477	60.655	1.00	18.21
ATOM	14563	CD1	LEU	2180	25.531	-10.706	60.115	1.00	19.75
ATOM	14564	CD2	LEU	2180	25.616	-12.597	61.193	1.00	21.75
ATOM	14565	C	LEU	2180	21.647	-10.651	60.092	1.00	15.89
ATOM	14566	O	LEU	2180	21.164	-11.958	69.578	1.00	15.62
ATOM	14567	N	LEU	2181	21.483	-10.229	58.953	1.00	16.34
ATOM	14568	CA	LEU	2181	20.675	-10.802	57.865	1.00	15.32
ATOM	14569	CB	LEU	2181	18.730	-9.794	57.398	1.00	14.91
ATOM	14570	CG	LEU	2181	19.435	-10.179	56.562	1.00	15.55
ATOM	14571	CD1	LEU	2181	17.575	-8.936	56.295	1.00	16.38
ATOM	14572	CD2	LEU	2181	18.776	-10.863	55.293	1.00	20.67
ATOM	14573	C	LEU	2181	21.496	-11.382	56.727	1.00	13.75
ATOM	14574	O	LEU	2181	23.275	-10.652	56.053	1.00	14.71
ATOM	14575	N	LEU	2182	21.493	-12.690	56.535	1.00	13.90
ATOM	14576	CA	LEU	2182	22.123	-13.329	55.435	1.00	15.95
ATOM	14577	CB	LEU	2182	22.726	-14.660	55.875	1.00	15.67
ATOM	14578	CG	LEU	2182	24.149	-14.629	56.437	1.00	20.68
ATOM	14579	CD1	LEU	2182	24.199	-13.819	57.775	1.00	19.21
ATOM	14580	CD2	LEU	2182	24.609	-16.065	56.696	1.00	19.28
ATOM	14581	C	LEU	2182	21.136	-13.585	54.338	1.00	15.71

ATOM	14582	C	LEU	2182	20.040	-14.075	54.552	1.00	19.38
ATOM	14583	N	ALA	2183	21.508	-13.246	53.081	1.00	13.91
ATOM	14584	CA	ALA	2183	20.614	-11.486	51.962	1.00	14.60
ATOM	14585	CR	ALA	2183	20.116	-12.169	51.386	1.00	13.61
ATOM	14586	C	ALA	2183	21.314	-14.305	50.893	1.00	14.00
ATOM	14587	O	ALA	2183	22.471	-14.643	50.538	1.00	11.38
ATOM	14588	N	ASP	2184	20.609	-15.309	50.388	1.00	14.00
ATOM	14589	CA	ASP	2184	21.169	-16.162	49.346	1.00	16.54
ATOM	14590	CB	ASP	2184	20.341	-17.433	49.180	1.00	16.86
ATOM	14591	CG	ASP	2184	20.723	-18.533	50.138	1.00	20.93
ATOM	14592	CD1	ASP	2184	21.818	-18.450	50.747	1.00	22.21
ATOM	14593	CD2	ASP	2184	19.945	-19.499	50.258	1.00	20.01
ATOM	14594	C	ASE	2184	21.177	-15.470	47.986	1.00	14.79
ATOM	14595	C	ASE	2184	20.295	-14.678	47.684	1.00	15.78
ATOM	14596	N	LEU	2185	22.200	-15.764	47.206	1.00	14.38
ATOM	14597	CA	LEU	2185	22.265	-15.175	45.831	1.00	13.28
ATOM	14598	CB	LEU	2185	23.614	-15.618	45.333	1.00	15.08
ATOM	14599	CG	LEU	2185	24.210	-13.667	45.780	1.00	16.28
ATOM	14600	CD1	LEU	2185	25.466	-11.758	44.988	1.00	13.48
ATOM	14601	CD2	LEU	2185	24.181	-12.584	45.571	1.00	14.68
ATOM	14602	C	LEU	2185	21.618	-16.377	48.711	1.00	17.98
ATOM	14603	N	LEU	2185	22.116	-17.851	48.418	1.00	17.18
ATOM	14604	N	PEQ	2186	20.525	-16.191	44.488	1.00	14.18
ATOM	14605	CB	PEQ	2186	19.831	-15.118	44.188	1.00	15.88
ATOM	14606	CA	PEQ	2186	19.847	-17.518	43.812	1.00	14.48
ATOM	14607	B	PEQ	2186	18.510	-16.891	43.188	1.00	15.48
ATOM	14608	CG	PEQ	2186	18.817	-15.488	43.088	1.00	15.67
ATOM	14609	C	PEQ	2186	20.584	-15.177	42.688	1.00	14.38
ATOM	14610	C	PEQ	2186	21.688	-12.781	42.100	1.00	15.08
ATOM	14611	N	PRE	2187	19.945	-19.189	42.100	1.00	11.68
ATOM	14612	CA	PRE	2187	20.481	-19.981	40.977	1.00	12.48
ATOM	14613	CB	PRE	2187	19.404	-20.938	40.480	1.00	10.11
ATOM	14614	CG	PRE	2187	19.660	-21.528	39.131	1.00	11.16
ATOM	14615	CD1	PRE	2187	20.749	-22.168	38.904	1.00	11.38
ATOM	14616	CD2	PRE	2187	18.751	-21.700	38.088	1.00	11.80
ATOM	14617	CE1	PRE	2187	20.924	-22.928	37.681	1.00	14.18
ATOM	14618	CE2	PRE	2187	18.914	-21.899	36.831	1.00	12.28
ATOM	14619	CZ	PRE	2187	20.008	-22.718	36.618	1.00	13.80
ATOM	14620	C	PRE	2187	20.908	-19.074	39.849	1.00	11.28
ATOM	14621	N	PRE	2187	20.114	-18.088	39.458	1.00	11.41
ATOM	14622	O	MET	2188	22.147	-19.188	39.118	1.00	11.61
ATOM	14623	CA	MET	2188	22.762	-18.581	38.275	1.00	11.77
ATOM	14624	CB	MET	2188	22.055	-18.868	36.943	1.00	13.96
ATOM	14625	CG	MET	2188	22.955	-18.724	35.707	1.00	16.90
ATOM	14626	CD	MET	2188	24.400	-19.854	35.851	1.00	12.86
ATOM	14627	CE	MET	2188	23.813	-21.337	35.069	1.00	19.25
ATOM	14628	C	MET	2188	22.708	-17.813	38.519	1.00	14.59
ATOM	14629	O	MET	2188	22.648	-16.116	37.584	1.00	16.18
ATOM	14630	N	ALA	2189	22.913	-16.194	39.775	1.00	13.29
ATOM	14631	CA	ALA	2189	22.985	-15.167	40.099	1.00	13.72
ATOM	14632	CB	ALA	2189	22.112	-14.869	41.333	1.00	11.70
ATOM	14633	C	ALA	2189	24.477	-14.747	40.359	1.00	14.21
ATOM	14634	O	ALA	2189	24.713	-13.180	40.633	1.00	15.89
ATOM	14635	N	TYR	2190	25.157	-15.703	40.178	1.00	13.28
ATOM	14636	CA	TYR	2190	26.713	-13.433	40.483	1.00	13.98
ATOM	14637	CB	TYR	2190	27.115	-13.724	41.946	1.00	12.98
ATOM	14638	CG	TYR	2190	26.683	-12.035	42.115	1.00	11.98
ATOM	14639	CD1	TYR	2190	27.524	-13.156	42.154	1.00	11.98
ATOM	14640	CE1	TYR	2190	27.987	-19.356	43.690	1.00	12.63
ATOM	14641	CD2	TYR	2190	25.396	-17.158	43.627	1.00	14.04
ATOM	14642	CE2	TYR	2190	24.914	-18.360	43.163	1.00	13.68
ATOM	14643	CZ	TYR	2190	25.783	-19.461	43.833	1.00	14.73
ATOM	14644	OH	TYR	2190	25.319	-20.692	44.128	1.00	15.13
ATOM	14645	C	TYR	2190	27.610	-16.362	43.415	1.00	14.63
ATOM	14646	O	TYR	2190	28.681	-16.811	43.367	1.00	14.13
ATOM	14647	N	ALA	2191	27.194	-16.318	40.067	1.00	13.79
ATOM	14648	CA	ALA	2191	27.843	-17.061	37.154	1.00	14.38
ATOM	14649	CB	ALA	2191	26.809	-17.072	36.474	1.00	13.74
ATOM	14650	C	ALA	2191	29.111	-16.513	36.866	1.00	14.17
ATOM	14651	O	ALA	2191	30.372	-13.210	36.131	1.00	12.13
ATOM	14652	N	THR	2192	29.381	-15.138	36.498	1.00	13.89
ATOM	14653	CA	THR	2192	30.829	-14.589	36.405	1.00	14.83
ATOM	14654	CB	THR	2192	30.560	-13.714	35.388	1.00	15.14
ATOM	14655	CG1	THR	2192	29.876	-12.588	35.146	1.00	14.87
ATOM	14656	CG2	THR	2192	30.038	-14.580	34.154	1.00	15.13
ATOM	14657	C	THR	2192	30.828	-13.435	35.138	1.00	14.17
ATOM	14658	O	THR	2192	30.877	-12.128	36.312	1.00	15.41

ATOM	14659	N	PRO	2193	32.073	-11.642	38.653	1.00	16.19
ATOM	14660	CD	PRO	2193	31.343	-11.538	37.490	1.00	16.85
ATOM	14661	CA	PRO	2193	31.315	-11.607	39.124	1.00	16.55
ATOM	14662	CB	PRO	2193	30.803	-11.702	38.990	1.00	16.64
ATOM	14663	CG	PRO	2193	34.343	-11.115	38.451	1.00	17.11
ATOM	14664	C	PRO	2193	31.465	-11.864	38.937	1.00	15.81
ATOM	14665	O	PRO	2193	30.831	-11.954	38.878	1.00	15.59
ATOM	14666	N	GLU	2194	31.454	-10.179	37.318	1.00	16.35
ATOM	14667	CA	GLU	2194	30.687	-10.008	37.419	1.00	17.01
ATOM	14668	CB	GLU	2194	30.858	-10.711	37.848	1.00	21.01
ATOM	14669	CG	GLU	2194	31.115	-10.902	37.630	1.00	30.85
ATOM	14670	CD	GLU	2194	32.469	-11.821	34.149	1.00	35.36
ATOM	14671	OE1	GLU	2194	31.524	-11.114	35.537	1.00	39.64
ATOM	14672	OE2	GLU	2194	33.450	-11.200	33.598	1.00	38.02
ATOM	14673	C	GLU	2194	29.266	-10.248	37.357	1.00	17.81
ATOM	14674	O	GLU	2194	28.002	-10.221	38.304	1.00	17.67
ATOM	14675	N	GLN	2195	28.812	-10.550	37.438	1.00	15.10
ATOM	14676	CA	GLN	2195	27.199	-10.546	37.744	1.00	16.01
ATOM	14677	CB	GLN	2195	27.642	-11.705	38.984	1.00	17.15
ATOM	14678	CG	GLN	2195	28.551	-11.554	37.438	1.00	21.06
ATOM	14679	CD	GLN	2195	26.948	-11.708	34.750	1.00	25.19
ATOM	14680	OE1	GLN	2195	24.964	-11.708	37.008	1.00	25.01
ATOM	14681	OE2	GLN	2195	26.855	-11.103	35.707	1.00	26.65
ATOM	14682	C	GLN	2195	27.806	-11.708	38.113	1.00	14.45
ATOM	14683	O	GLN	2195	26.610	-11.708	35.789	1.00	14.86
ATOM	14684	N	ALA	2196	27.966	-11.147	35.889	1.00	11.11
ATOM	14685	CA	ALA	2196	27.908	-11.009	41.819	1.00	11.30
ATOM	14686	CB	ALA	2196	29.105	-11.145	41.719	1.00	11.13
ATOM	14687	C	ALA	2196	27.898	-11.708	41.819	1.00	11.64
ATOM	14688	O	ALA	2196	27.146	-11.009	41.819	1.00	11.62
ATOM	14689	N	THR	2197	28.727	-11.147	41.819	1.00	11.16
ATOM	14690	CA	THR	2197	28.809	-11.009	41.819	1.00	11.39
ATOM	14691	CB	THR	2197	29.158	-11.147	41.819	1.00	11.11
ATOM	14692	CG	THR	2197	27.136	-11.147	41.819	1.00	11.74
ATOM	14693	CD	THR	2197	27.672	-11.147	41.819	1.00	11.16
ATOM	14694	OE1	THR	2197	27.106	-11.147	41.819	1.00	11.11
ATOM	14695	OE2	THR	2197	27.991	-11.147	41.819	1.00	11.11
ATOM	14696	C	THR	2197	28.809	-11.147	41.819	1.00	11.15
ATOM	14697	O	THR	2197	27.819	-11.147	41.819	1.00	11.13
ATOM	14698	C	THR	2197	27.146	-11.147	41.819	1.00	11.18
ATOM	14699	O	THR	2197	27.136	-11.147	41.819	1.00	11.11
ATOM	14700	N	GLU	2198	26.100	-11.147	41.819	1.00	11.18
ATOM	14701	CA	GLU	2198	27.836	-11.147	41.819	1.00	11.18
ATOM	14702	CB	GLU	2198	28.166	-11.147	41.819	1.00	11.19
ATOM	14703	CG	GLU	2198	24.844	-11.147	41.819	1.00	21.47
ATOM	14704	CD	GLU	2198	24.130	-11.147	41.819	1.00	31.10
ATOM	14705	OE1	GLU	2198	27.152	-11.147	41.819	1.00	31.15
ATOM	14706	OE2	GLU	2198	28.064	-11.147	41.819	1.00	31.13
ATOM	14707	C	GLU	2198	24.101	-11.147	41.819	1.00	11.11
ATOM	14708	O	GLU	2198	28.148	-11.147	41.819	1.00	11.13
ATOM	14709	N	ASN	2199	24.100	-11.147	41.819	1.00	11.10
ATOM	14710	CA	ASN	2199	27.131	-11.147	41.819	1.00	11.15
ATOM	14711	CB	ASN	2199	27.136	-11.147	41.819	1.00	11.15
ATOM	14712	CG	ASN	2199	27.107	-11.147	41.819	1.00	11.12
ATOM	14713	CD	ASN	2199	27.107	-11.147	41.819	1.00	11.16
ATOM	14714	OE1	ASN	2199	27.107	-11.147	41.819	1.00	11.16
ATOM	14715	C	ASN	2199	28.107	-11.147	41.819	1.00	11.13
ATOM	14716	O	ASN	2199	27.107	-11.147	41.819	1.00	11.18
ATOM	14717	N	ALA	2200	27.107	-11.147	41.819	1.00	11.18
ATOM	14718	CA	ALA	2200	27.107	-11.147	41.819	1.00	11.11
ATOM	14719	CB	ALA	2200	28.107	-11.147	41.819	1.00	11.18
ATOM	14720	C	ALA	2200	24.107	-11.147	41.819	1.00	11.13
ATOM	14721	O	ALA	2200	27.107	-11.147	41.819	1.00	11.13
ATOM	14722	N	ALA	2201	25.107	-11.147	41.819	1.00	11.13
ATOM	14723	CA	ALA	2201	24.107	-11.147	41.819	1.00	11.13
ATOM	14724	CB	ALA	2201	25.107	-11.147	41.819	1.00	11.11
ATOM	14725	C	ALA	2201	23.107	-11.147	41.819	1.00	11.16
ATOM	14726	O	ALA	2201	22.107	-11.147	41.819	1.00	11.13
ATOM	14727	N	THR	2202	22.107	-11.147	41.819	1.00	11.16
ATOM	14728	CA	THR	2202	20.107	-11.147	41.819	1.00	11.19
ATOM	14729	CB	THR	2202	20.107	-11.147	41.819	1.00	11.16
ATOM	14730	CG	THR	2202	20.107	-11.147	41.819	1.00	11.16
ATOM	14731	CD	THR	2202	18.107	-11.147	41.819	1.00	11.11
ATOM	14732	C	THR	2202	20.107	-11.147	41.819	1.00	11.16
ATOM	14733	O	THR	2202	19.107	-11.147	41.819	1.00	11.13
ATOM	14734	N	VAL	2203	20.107	-11.147	41.819	1.00	11.11
ATOM	14735	CA	VAL	2203	20.107	-11.147	41.819	1.00	11.11

ATOM	14736	CB	VAL	2203	20.887	-9.302	47.970	1.00	17.90
ATOM	14737	CG1	VAL	2203	20.327	-9.969	49.200	1.00	22.76
ATOM	14738	CG2	VAL	2203	20.290	-10.031	48.713	1.00	21.66
ATOM	14739	C	VAL	2203	20.907	-7.062	49.116	1.00	13.49
ATOM	14740	O	VAL	2203	20.251	-6.904	50.122	1.00	11.71
ATOM	14741	N	MET	2204	22.182	-6.570	49.026	1.00	12.79
ATOM	14742	CA	MET	2204	22.543	-5.796	50.136	1.00	15.59
ATOM	14743	CB	MET	2204	24.224	-5.501	49.875	1.00	16.63
ATOM	14744	CG	MET	2204	25.104	-6.714	49.887	1.00	18.75
ATOM	14745	SD	MET	2204	25.283	-7.568	51.497	1.00	19.13
ATOM	14746	CE	MET	2204	26.531	-6.507	51.339	1.00	18.60
ATOM	14747	C	MET	2204	21.993	-4.490	50.308	1.00	14.70
ATOM	14748	O	MET	2204	21.556	-4.147	51.421	1.00	13.48
ATOM	14749	N	APG	2205	21.539	-3.785	49.208	1.00	13.14
ATOM	14750	CA	APG	2205	20.999	-2.517	48.284	1.00	13.16
ATOM	14751	CB	APG	2205	20.887	-1.887	47.898	1.00	13.73
ATOM	14752	CG	APG	2205	22.129	-1.511	47.283	1.00	15.34
ATOM	14753	CD	APG	2205	22.044	-0.519	46.141	1.00	14.72
ATOM	14754	NE	APG	2205	23.233	-0.731	47.349	1.00	16.35
ATOM	14755	C2	APG	2205	23.531	-1.231	48.199	1.00	15.47
ATOM	14756	NH1	APG	2205	22.591	-2.081	47.900	1.00	16.64
ATOM	14757	NH2	APG	2205	24.717	-0.837	47.642	1.00	16.81
ATOM	14758	C	APG	2205	19.681	-2.340	47.819	1.00	15.31
ATOM	14759	O	APG	2205	19.001	-1.679	47.510	1.00	14.24
ATOM	14760	N	ALA	2206	19.071	-3.935	47.601	1.00	11.63
ATOM	14761	CA	ALA	2206	17.710	-4.166	50.090	1.00	14.83
ATOM	14762	CB	ALA	2206	17.182	-5.619	49.792	1.00	14.81
ATOM	14763	C	ALA	2206	17.717	-4.538	51.609	1.00	15.11
ATOM	14764	O	ALA	2206	16.641	-4.671	51.209	1.00	15.01
ATOM	14765	N	GLY	2207	18.838	-4.609	51.217	1.00	14.33
ATOM	14766	CA	GLY	2207	18.993	-4.834	51.666	1.00	14.24
ATOM	14767	C	GLY	2207	19.810	-5.609	51.219	1.00	14.79
ATOM	14768	O	GLY	2207	19.965	-6.008	51.430	1.00	13.55
ATOM	14769	N	ALA	2208	20.584	-6.731	51.710	1.00	15.05
ATOM	14770	CA	ALA	2208	21.211	-7.838	51.790	1.00	15.56
ATOM	14771	CB	ALA	2208	21.478	-8.860	51.680	1.00	14.49
ATOM	14772	C	ALA	2208	22.568	-7.331	54.310	1.00	15.56
ATOM	14773	O	ALA	2208	22.981	-6.037	51.940	1.00	14.11
ATOM	14774	N	ASN	2209	22.216	-8.111	51.317	1.00	14.56
ATOM	14775	CA	ASN	2209	24.516	-7.733	51.710	1.00	16.39
ATOM	14776	CB	ASN	2209	24.596	-7.831	51.206	1.00	17.22
ATOM	14777	CG	ASN	2209	25.534	-7.137	51.984	1.00	15.32
ATOM	14778	OD1	ASN	2209	25.458	-5.834	51.868	1.00	20.45
ATOM	14779	ND2	ASN	2209	21.700	-7.801	51.711	1.00	13.67
ATOM	14780	C	ASN	2209	21.579	-8.641	50.139	1.00	16.35
ATOM	14781	O	ASN	2209	26.776	-8.360	51.194	1.00	16.50
ATOM	14782	N	MET	2210	25.111	-9.751	54.594	1.00	16.82
ATOM	14783	CA	MET	2210	25.996	-10.731	54.091	1.00	16.51
ATOM	14784	CB	MET	2210	26.474	-11.661	51.197	1.00	18.41
ATOM	14785	CG	MET	2210	27.305	-12.833	51.798	1.00	19.82
ATOM	14786	SD	MET	2210	27.830	-11.739	54.264	1.00	21.89
ATOM	14787	SE	MET	2210	29.505	-13.237	54.418	1.00	21.07
ATOM	14788	C	MET	2210	29.261	-11.633	51.015	1.00	16.91
ATOM	14789	O	MET	2210	24.043	-11.734	53.109	1.00	14.74
ATOM	14790	N	VAL	2211	26.009	-12.110	51.041	1.00	15.70
ATOM	14791	CA	VAL	2211	25.444	-12.933	51.978	1.00	16.74
ATOM	14792	CB	VAL	2211	25.793	-12.306	49.613	1.00	19.57
ATOM	14793	CG1	VAL	2211	25.661	-13.333	48.523	1.00	24.64
ATOM	14794	CG2	VAL	2211	24.899	-11.713	49.342	1.00	18.37
ATOM	14795	C	VAL	2211	26.982	-14.333	51.953	1.00	17.23
ATOM	14796	O	VAL	2211	27.131	-14.533	51.385	1.00	17.13
ATOM	14797	N	LYS	2212	25.130	-15.333	50.757	1.00	18.13
ATOM	14798	CA	LYS	2212	25.533	-16.933	50.757	1.00	17.79
ATOM	14799	CB	LYS	2212	24.633	-17.533	51.633	1.00	17.25
ATOM	14800	CG	LYS	2212	23.933	-19.333	51.733	1.00	17.65
ATOM	14801	CD	LYS	2212	24.563	-19.733	51.933	1.00	19.09
ATOM	14802	CE	LYS	2212	23.656	-19.333	51.733	1.00	19.44
ATOM	14803	NZ	LYS	2212	22.617	-20.723	51.733	1.00	14.76
ATOM	14804	C	LYS	2212	22.527	-17.353	48.333	1.00	14.84
ATOM	14805	O	LYS	2212	21.612	-18.347	48.583	1.00	13.54
ATOM	14806	N	ILE	2213	25.548	-13.303	48.133	1.00	17.55
ATOM	14807	CA	ILE	2213	26.643	-18.510	47.650	1.00	17.03
ATOM	14808	CB	ILE	2213	27.620	-17.303	46.743	1.00	17.12
ATOM	14809	CG1	ILE	2213	27.019	-16.453	46.418	1.00	14.75
ATOM	14810	CG2	ILE	2213	24.972	-17.333	47.442	1.00	17.11
ATOM	14811	CD1	ILE	2213	26.984	-16.858	46.838	1.00	16.81
ATOM	14812	C	ILE	2213	24.113	-17.333	47.733	1.00	17.13

ATOM	14813	O	ILE	2213	27.899	-26.384	48.646	1.00	17.01
ATOM	14814	N	GLU	2214	26.623	-26.908	48.868	1.00	17.04
ATOM	14815	CA	GLU	2214	26.960	-27.831	48.888	1.00	18.18
ATOM	14816	CB	GLU	2214	25.729	-28.170	48.518	1.00	19.12
ATOM	14817	CG	GLU	2214	24.448	-28.584	48.259	1.00	20.19
ATOM	14818	CD	GLU	2214	23.272	-28.656	48.811	1.00	23.13
ATOM	14819	OE1	GLU	2214	22.371	-24.392	48.821	1.00	21.02
ATOM	14820	OE2	GLU	2214	22.243	-27.657	47.563	1.00	21.19
ATOM	14821	O	GLU	2214	23.086	-27.665	48.913	1.00	18.12
ATOM	14821	O	GLU	2214	23.089	-27.300	44.771	1.00	17.83
ATOM	14822	N	GLY	2215	29.048	-27.467	48.761	1.00	19.15
ATOM	14824	CA	GLY	2215	30.148	-27.877	48.484	1.00	21.18
ATOM	14825	C	GLY	2215	31.491	-27.915	48.181	1.00	21.73
ATOM	14826	O	GLY	2215	31.679	-27.922	47.246	1.00	20.66
ATOM	14827	N	GLY	2216	32.434	-24.629	48.575	1.00	22.11
ATOM	14828	CA	GLY	2216	33.749	-24.765	48.176	1.00	21.89
ATOM	14829	C	GLY	2216	34.841	-25.888	48.390	1.00	21.17
ATOM	14830	O	GLY	2216	34.682	-27.676	48.441	1.00	21.19
ATOM	14831	N	GLU	2217	33.964	-24.114	48.166	1.00	22.46
ATOM	14832	CA	GLU	2217	35.140	-25.869	44.781	1.00	23.18
ATOM	14833	CB	GLU	2217	36.119	-24.954	44.187	1.00	23.77
ATOM	14834	CG	GLU	2217	38.116	-25.130	44.171	1.00	34.17
ATOM	14835	CD	GLU	2217	40.240	-24.431	48.458	1.00	37.18
ATOM	14836	OE1	GLU	2217	38.934	-25.126	48.880	1.00	41.19
ATOM	14837	OE2	GLU	2217	41.405	-24.775	48.111	1.00	40.10
ATOM	14838	O	GLU	2217	36.881	-27.369	47.533	1.00	20.77
ATOM	14839	C	GLU	2217	37.519	-27.817	48.581	1.00	19.81
ATOM	14840	N	LEU	2218	31.930	-25.188	48.690	1.00	19.83
ATOM	14841	CA	LEU	2218	33.678	-25.191	48.376	1.00	18.13
ATOM	14842	CB	LEU	2218	34.673	-27.922	48.601	1.00	20.02
ATOM	14843	CG	LEU	2218	33.243	-27.946	48.631	1.00	18.78
ATOM	14844	CD1	LEU	2218	32.217	-27.011	48.687	1.00	17.40
ATOM	14845	OE2	LEU	2218	31.032	-27.440	48.318	1.00	16.25
ATOM	14846	CE3	LEU	2218	31.191	-26.881	39.871	1.00	13.12
ATOM	14847	CD1	LEU	2218	31.674	-25.860	48.189	1.00	16.14
ATOM	14848	NE1	LEU	2218	31.315	-25.188	48.344	1.00	15.78
ATOM	14849	CE2	LEU	2218	30.810	-27.733	48.161	1.00	17.11
ATOM	14850	CE3	LEU	2218	30.945	-26.133	29.719	1.00	17.00
ATOM	14851	CH2	LEU	2218	29.812	-26.646	48.501	1.00	15.11
ATOM	14852	C	LEU	2218	28.234	-26.998	48.309	1.00	17.12
ATOM	14853	O	LEU	2218	28.377	-29.950	48.177	1.00	17.98
ATOM	14854	N	LEU	2219	34.793	-26.790	48.133	1.00	13.71
ATOM	14855	CA	LEU	2219	34.213	-29.700	48.731	1.00	18.86
ATOM	14856	CB	LEU	2219	33.150	-29.746	44.809	1.00	18.12
ATOM	14857	CG	LEU	2219	32.749	-26.160	44.300	1.00	21.20
ATOM	14858	CD1	LEU	2219	30.878	-26.463	48.496	1.00	21.15
ATOM	14859	CD2	LEU	2219	31.158	-29.031	48.431	1.00	18.14
ATOM	14860	C	LEU	2219	28.299	-28.616	44.381	1.00	13.10
ATOM	14861	O	LEU	2219	28.063	-27.432	44.601	1.00	16.47
ATOM	14862	N	VAL	2220	36.482	-29.178	44.575	1.00	18.17
ATOM	14863	CA	VAL	2220	38.586	-28.413	48.161	1.00	18.12
ATOM	14864	CB	VAL	2220	38.371	-29.133	48.336	1.00	21.78
ATOM	14865	CG1	VAL	2220	40.041	-28.231	48.304	1.00	21.15
ATOM	14866	CG2	VAL	2220	38.966	-26.415	48.731	1.00	21.40
ATOM	14867	C	VAL	2220	38.214	-26.436	48.666	1.00	18.16
ATOM	14868	O	VAL	2220	37.671	-28.047	48.147	1.00	18.12
ATOM	14869	N	GLU	2221	37.864	-26.792	48.371	1.00	11.13
ATOM	14870	CA	GLU	2221	38.010	-28.162	48.336	1.00	18.16
ATOM	14871	CB	GLU	2221	38.298	-28.548	48.301	1.00	21.13
ATOM	14872	CG	GLU	2221	38.200	-24.119	48.331	1.00	28.16
ATOM	14873	CD	GLU	2221	37.539	-24.790	39.113	1.00	38.10
ATOM	14874	OE1	GLU	2221	37.805	-25.133	38.881	1.00	31.19
ATOM	14875	OE2	GLU	2221	38.517	-24.641	38.681	1.00	31.16
ATOM	14876	O	GLU	2221	38.811	-24.167	48.901	1.00	18.16
ATOM	14877	O	GLU	2221	38.965	-24.136	48.446	1.00	16.17
ATOM	14878	N	THR	2222	37.617	-25.116	48.916	1.00	17.13
ATOM	14879	CA	THR	2222	34.307	-24.341	48.187	1.00	21.19
ATOM	14880	CB	THR	2222	33.191	-25.115	42.842	1.00	17.19
ATOM	14881	CG1	THR	2222	33.175	-25.576	48.181	1.00	19.18
ATOM	14882	CG2	THR	2222	31.842	-24.435	43.181	1.00	19.18
ATOM	14883	C	THR	2222	31.326	-23.845	44.645	1.00	16.18
ATOM	14884	O	THR	2222	33.974	-22.741	44.301	1.00	18.16
ATOM	14885	N	VAL	2223	34.681	-24.767	48.586	1.00	17.17
ATOM	14886	CA	VAL	2223	34.654	-24.412	47.993	1.00	17.18
ATOM	14887	CB	VAL	2223	34.958	-25.631	47.993	1.00	18.15
ATOM	14888	CG1	VAL	2223	34.953	-25.211	49.373	1.00	20.17
ATOM	14889	CG2	VAL	2223	33.932	-26.721	48.651	1.00	16.16

ATOM	14890	C	VAL	2223	35.666	-11.320	47.329	1.00	19.79
ATOM	14891	O	VAL	2223	35.252	-11.349	48.024	1.00	17.16
ATOM	14892	N	GLN	2224	26.885	-11.489	46.827	1.00	18.72
ATOM	14893	CA	GLN	2224	27.946	-11.511	47.065	1.00	21.39
ATOM	14894	CE	GLN	2224	29.273	-11.925	46.846	1.00	24.26
ATOM	14895	CO	GLN	2224	39.725	-14.331	46.648	1.00	29.57
ATOM	14896	CG	GLN	2224	41.056	-14.652	45.953	1.00	33.18
ATOM	14897	OE1	GLN	2224	41.196	-14.464	44.728	1.00	33.20
ATOM	14898	NE2	GLN	2224	42.018	-15.110	45.717	1.00	32.68
ATOM	14899	C	GLN	2224	27.502	-11.248	46.554	1.00	19.68
ATOM	14900	O	GLN	2224	27.618	-10.149	47.153	1.00	19.34
ATOM	14901	N	MET	2225	26.978	-11.108	47.535	1.00	19.03
ATOM	14902	CA	MET	2225	26.552	-9.846	44.744	1.00	18.40
ATOM	14903	CE	MET	2225	26.306	-10.016	47.249	1.00	18.27
ATOM	14904	CG	MET	2225	27.591	-10.314	47.485	1.00	22.00
ATOM	14905	CD	MET	2225	27.353	-10.419	46.906	1.00	21.69
ATOM	14906	CE	MET	2225	27.447	-8.711	46.159	1.00	20.84
ATOM	14907	C	MET	2225	25.324	-9.116	45.445	1.00	17.69
ATOM	14908	O	MET	2225	25.177	-8.313	45.519	1.00	16.98
ATOM	14909	N	LEU	2226	24.411	-10.163	45.868	1.00	17.48
ATOM	14910	CA	LEU	2226	23.228	-8.937	45.145	1.00	17.37
ATOM	14911	CB	LEU	2226	22.145	-10.388	45.819	1.00	16.12
ATOM	14912	CG	LEU	2226	21.193	-11.057	45.681	1.00	14.50
ATOM	14913	CH	LEU	2226	20.554	-11.710	45.054	1.00	10.81
ATOM	14914	CH2	LEU	2226	20.185	-9.923	45.448	1.00	15.10
ATOM	14915	C	LEU	2226	23.662	-8.896	45.864	1.00	17.88
ATOM	14916	O	LEU	2226	23.263	-7.777	45.118	1.00	16.44
ATOM	14917	N	THR	2227	24.429	-8.561	45.168	1.00	20.87
ATOM	14918	CA	THR	2227	24.889	-8.097	45.918	1.00	24.13
ATOM	14919	CB	THR	2227	25.888	-10.378	50.190	1.00	25.67
ATOM	14920	OH1	THR	2227	25.284	-11.111	50.850	1.00	29.14
ATOM	14921	OH2	THR	2227	26.191	-8.814	51.905	1.00	31.47
ATOM	14922	C	THR	2227	25.547	-7.711	45.881	1.00	24.53
ATOM	14923	O	THR	2227	25.151	-6.813	50.845	1.00	25.50
ATOM	14924	N	GLU	2228	26.447	-10.146	45.534	1.00	25.38
ATOM	14925	CA	GLU	2228	27.114	-9.159	46.537	1.00	26.35
ATOM	14926	CB	GLU	2228	28.383	-8.181	45.838	1.00	30.60
ATOM	14927	CG	GLU	2228	28.165	-7.548	45.437	1.00	31.83
ATOM	14928	CH	GLU	2228	29.465	-6.473	45.846	1.00	33.21
ATOM	14929	OH1	GLU	2228	40.557	-10.110	46.433	1.00	35.66
ATOM	14930	OH2	GLU	2228	29.168	-7.781	45.837	1.00	28.52
ATOM	14931	C	GLU	2228	26.180	-8.133	45.190	1.00	26.51
ATOM	14932	O	GLU	2228	26.475	-6.153	45.176	1.00	26.57
ATOM	14933	N	ARG	2229	24.943	-8.437	45.747	1.00	23.68
ATOM	14934	CA	ARG	2229	24.694	-7.699	45.108	1.00	22.45
ATOM	14935	CB	ARG	2229	23.456	-8.199	45.893	1.00	21.74
ATOM	14936	CG	ARG	2229	24.481	-10.651	44.979	1.00	21.55
ATOM	14937	CD	ARG	2229	24.202	-8.159	45.119	1.00	19.55
ATOM	14938	NE	ARG	2229	25.257	-10.823	45.133	1.00	16.72
ATOM	14939	CZ	ARG	2229	26.518	-10.098	45.696	1.00	14.59
ATOM	14940	NH1	ARG	2229	26.918	-8.907	45.104	1.00	14.68
ATOM	14941	NH2	ARG	2229	27.411	-10.143	45.148	1.00	16.35
ATOM	14942	C	ARG	2229	22.896	-10.111	45.144	1.00	20.95
ATOM	14943	O	ARG	2229	21.753	-10.659	45.889	1.00	21.04
ATOM	14944	N	ALA	2230	23.264	-10.770	45.517	1.00	19.92
ATOM	14945	CA	ALA	2230	22.382	-10.669	50.646	1.00	17.61
ATOM	14946	CB	ALA	2230	21.790	-9.611	50.605	1.00	20.44
ATOM	14947	C	ALA	2230	21.365	-8.656	50.912	1.00	18.59
ATOM	14948	O	ALA	2230	20.374	-8.183	50.522	1.00	17.76
ATOM	14949	N	VAL	2231	21.335	-8.143	50.154	1.00	17.15
ATOM	14950	CA	VAL	2231	20.324	-7.173	50.144	1.00	17.77
ATOM	14951	CB	VAL	2231	19.719	-6.172	49.183	1.00	17.59
ATOM	14952	OH1	VAL	2231	18.649	-6.073	49.916	1.00	17.35
ATOM	14953	OH2	VAL	2231	19.125	-6.112	49.335	1.00	17.32
ATOM	14954	C	VAL	2231	20.824	-8.153	50.183	1.00	17.83
ATOM	14955	O	VAL	2231	21.576	-8.662	50.623	1.00	18.81
ATOM	14956	N	PRO	2232	20.412	-8.669	50.450	1.00	16.77
ATOM	14957	CD	PRO	2232	29.711	-10.106	50.376	1.00	17.75
ATOM	14958	CA	PRO	2232	20.864	-10.168	50.145	1.00	16.29
ATOM	14959	CB	PRO	2232	20.513	-9.168	50.658	1.00	18.97
ATOM	14960	CG	PRO	2232	29.396	-8.159	50.529	1.00	18.75
ATOM	14961	C	PRO	2232	20.191	-11.691	50.557	1.00	15.31
ATOM	14962	O	PRO	2232	29.948	-11.399	50.093	1.00	15.40
ATOM	14963	N	VAL	2233	20.887	-12.520	50.576	1.00	16.70
ATOM	14964	CA	VAL	2233	29.465	-13.753	51.995	1.00	15.99
ATOM	14965	CB	VAL	2233	21.129	-13.173	50.777	1.00	17.33
ATOM	14966	OH1	VAL	2233	20.341	-15.516	50.181	1.00	15.74

ATOM	14967	CG2	VAL	2237	31.189	-13.105	49.708	1.00	16.38
ATOM	14968	C	VAL	2237	30.516	-14.958	52.924	1.00	16.80
ATOM	14969	O	VAL	2237	31.250	-15.274	53.681	1.00	16.90
ATOM	14970	N	CYS	2234	29.717	-15.695	52.838	1.00	15.58
ATOM	14971	CA	CYS	2234	29.155	-16.917	53.599	1.00	16.50
ATOM	14972	CB	CYS	2234	27.883	-16.954	54.281	1.00	15.73
ATOM	14973	SG	CYS	2234	27.569	-18.518	55.159	1.00	16.61
ATOM	14974	C	CYS	2234	29.140	-18.027	52.552	1.00	18.28
ATOM	14975	O	CYS	2234	28.443	-17.992	51.544	1.00	19.80
ATOM	14976	N	GLY	2235	30.017	-18.990	52.725	1.00	17.80
ATOM	14977	CA	GLY	2235	30.167	-20.693	51.841	1.00	17.79
ATOM	14978	O	GLY	2235	29.681	-21.125	52.090	1.00	16.35
ATOM	14979	C	GLY	2235	28.730	-21.011	53.060	1.00	16.55
ATOM	14980	N	HIS	2236	28.989	-22.173	51.119	1.00	16.49
ATOM	14981	CA	HIS	2236	29.981	-23.169	51.578	1.00	19.20
ATOM	14982	CB	HIS	2236	28.746	-22.890	50.790	1.00	19.17
ATOM	14983	CG	HIS	2236	29.489	-23.800	51.058	1.00	20.45
ATOM	14984	CD2	HIS	2236	29.484	-24.915	51.784	1.00	21.15
ATOM	14985	ND1	HIS	2236	34.181	-23.167	51.018	1.00	20.57
ATOM	14986	HE1	HIS	2236	31.171	-24.378	51.175	1.00	20.12
ATOM	14987	NE2	HIS	2236	34.177	-25.100	51.143	1.00	19.80
ATOM	14988	C	HIS	2236	28.479	-24.410	50.666	1.00	19.78
ATOM	14989	O	HIS	2236	28.151	-24.443	49.475	1.00	18.95
ATOM	14990	N	LEU	2237	29.849	-25.347	51.315	1.00	20.71
ATOM	14991	CA	LEU	2237	29.777	-26.856	50.926	1.00	22.90
ATOM	14992	CB	LEU	2237	31.881	-26.880	51.585	1.00	21.03
ATOM	14993	CG	LEU	2237	31.889	-27.887	50.811	1.00	21.60
ATOM	14994	CD1	LEU	2237	31.178	-28.144	51.773	1.00	20.20
ATOM	14995	CD2	LEU	2237	31.647	-28.244	49.481	1.00	22.91
ATOM	14996	C	LEU	2237	28.541	-28.881	51.565	1.00	22.62
ATOM	14997	O	LEU	2237	31.701	-28.968	52.176	1.00	22.68
ATOM	14998	N	GLY	2238	28.770	-28.618	50.779	1.00	23.03
ATOM	14999	CA	GLY	2238	28.180	-28.671	51.561	1.00	22.17
ATOM	15000	C	GLY	2238	28.890	-29.190	50.590	1.00	24.42
ATOM	15001	O	GLY	2238	29.103	-29.567	49.889	1.00	24.62
ATOM	15002	N	LEU	2239	29.634	-29.665	51.601	1.00	25.75
ATOM	15003	CA	LEU	2239	29.500	-30.715	49.801	1.00	27.14
ATOM	15004	CB	LEU	2239	29.411	-31.445	50.873	1.00	27.84
ATOM	15005	CG	LEU	2239	29.100	-32.171	49.813	1.00	29.30
ATOM	15006	CD1	LEU	2239	31.875	-32.170	50.772	1.00	29.18
ATOM	15007	CD2	LEU	2239	31.889	-33.265	49.448	1.00	29.54
ATOM	15008	C	LEU	2239	28.890	-33.715	49.114	1.00	27.73
ATOM	15009	O	LEU	2239	33.770	-33.661	50.101	1.00	29.81
ATOM	15010	N	THR	2240	24.391	-38.806	48.121	1.00	24.58
ATOM	15011	CA	THR	2240	24.898	-37.579	47.714	1.00	24.57
ATOM	15012	CB	THR	2240	28.130	-36.830	46.894	1.00	25.13
ATOM	15013	CG1	THR	2240	28.000	-37.598	45.890	1.00	23.49
ATOM	15014	CG2	THR	2240	26.830	-36.687	47.810	1.00	26.35
ATOM	15015	C	THR	2240	23.751	-37.171	46.840	1.00	24.62
ATOM	15016	O	THR	2240	23.443	-37.075	45.601	1.00	23.33
ATOM	15017	N	PRO	2241	21.565	-37.433	47.400	1.00	24.68
ATOM	15018	CD	PRO	2241	21.400	-26.838	48.589	1.00	25.30
ATOM	15019	CA	PRO	2241	29.567	-27.132	46.741	1.00	24.86
ATOM	15020	CB	PRO	2241	29.180	-27.014	47.768	1.00	24.84
ATOM	15021	CG	PRO	2241	29.136	-26.900	48.575	1.00	27.84
ATOM	15022	C	PRO	2241	29.111	-27.002	45.337	1.00	24.57
ATOM	15023	O	PRO	2241	18.818	-27.513	44.514	1.00	24.53
ATOM	15024	N	GLN	2242	20.838	-25.734	45.026	1.00	24.21
ATOM	15025	CA	GLN	2242	20.743	-25.335	43.687	1.00	23.19
ATOM	15026	CP	GLN	2242	21.101	-24.334	43.549	1.00	21.41
ATOM	15027	CG	GLN	2242	20.849	-22.785	43.917	1.00	19.29
ATOM	15028	CD	GLN	2242	21.104	-21.801	44.191	1.00	20.80
ATOM	15029	OE1	GLN	2242	21.193	-21.400	43.428	1.00	18.83
ATOM	15030	NE1	GLN	2242	21.441	-20.736	49.140	1.00	17.73
ATOM	15031	C	GLN	2242	21.160	-26.331	42.602	1.00	21.96
ATOM	15032	O	GLN	2242	20.890	-26.261	41.450	1.00	20.71
ATOM	15033	N	SER	2243	21.157	-27.259	43.967	1.00	20.88
ATOM	15034	CA	SER	2243	20.153	-28.271	42.612	1.00	20.30
ATOM	15035	CB	SER	2243	24.843	-28.559	42.293	1.00	20.51
ATOM	15036	CG	SER	2243	24.851	-27.405	42.669	1.00	18.03
ATOM	15037	C	SER	2243	21.172	-29.587	40.146	1.00	20.19
ATOM	15038	O	SER	2243	22.181	-30.647	41.764	1.00	19.42
ATOM	15039	N	VAL	2244	20.138	-29.519	42.673	1.00	20.17
ATOM	15040	CA	VAL	2244	19.710	-30.717	40.866	1.00	19.88
ATOM	15041	CB	VAL	2244	18.285	-30.340	43.813	1.00	20.85
ATOM	15042	CD1	VAL	2244	17.505	-29.959	40.175	1.00	19.91
ATOM	15043	CD2	VAL	2244	17.505	-31.001	43.628	1.00	21.88

ATOM	15044	C	VAL	2244	19.581	-31.558	41.538	1.00	20.01
ATOM	15045	C	VAL	2244	19.484	-32.785	41.611	1.00	19.12
ATOM	15046	N	ASN	2245	19.582	-70.907	40.379	1.00	17.97
ATOM	15047	CA	ASN	2245	19.471	-71.626	39.118	1.00	19.30
ATOM	15048	CB	ASN	2245	19.110	-70.653	37.993	1.00	17.46
ATOM	15049	CG	ASN	2245	17.709	-70.102	38.146	1.00	19.80
ATOM	15050	CD1	ASN	2245	16.727	-70.850	38.058	1.00	16.46
ATOM	15051	ND2	ASN	2245	17.601	-78.796	38.386	1.00	18.40
ATOM	15052	C	ASN	2245	20.756	-32.167	38.787	1.00	19.89
ATOM	15053	O	ASN	2245	20.754	-13.401	38.114	1.00	20.19
ATOM	15054	H	ILE	2246	21.861	-51.835	39.254	1.00	20.52
ATOM	15055	CA	ILE	2246	23.172	-52.482	39.011	1.00	21.49
ATOM	15056	CB	ILE	2246	24.565	-31.581	39.411	1.00	20.68
ATOM	15057	CG2	ILE	2246	25.654	-32.401	39.365	1.00	21.13
ATOM	15058	CG1	ILE	2246	24.464	-30.365	38.472	1.00	20.16
ATOM	15059	CT1	ILE	2246	25.006	-30.675	37.085	1.00	18.99
ATOM	15060	O	ILE	2246	23.266	-13.759	39.847	1.00	22.01
ATOM	15061	O	ILE	2246	23.619	-14.821	39.333	1.00	21.51
ATOM	15062	N	PHE	2247	22.993	-13.647	41.136	1.00	22.01
ATOM	15063	CA	PHE	2247	23.013	-14.796	41.016	1.00	24.55
ATOM	15064	CB	PHE	2247	23.993	-14.381	40.498	1.00	23.05
ATOM	15065	CG	PHE	2247	23.907	-13.243	41.851	1.00	20.31
ATOM	15066	CD1	PHE	2247	25.019	-13.308	40.512	1.00	21.85
ATOM	15067	CD2	PHE	2247	23.449	-12.113	44.570	1.00	30.37
ATOM	15068	CE1	PHE	2247	26.139	-12.383	43.870	1.00	34.07
ATOM	15069	CE2	PHE	2247	24.310	-11.583	44.873	1.00	34.16
ATOM	15070	CZ	PHE	2247	25.667	-51.174	44.508	1.00	34.12
ATOM	15071	C	THR	2247	21.913	-15.836	42.778	1.00	24.18
ATOM	15072	O	THR	2247	22.042	-16.975	42.156	1.00	25.60
ATOM	15073	N	GLY	2248	20.818	-35.349	41.166	1.00	22.84
ATOM	15074	CA	GLY	2248	19.712	-36.233	40.893	1.00	23.98
ATOM	15075	C	GLY	2248	18.818	-16.384	42.107	1.00	25.53
ATOM	15076	O	GLY	2248	18.078	-17.362	42.218	1.00	25.77
ATOM	15077	N	GLY	2248	18.854	-15.405	43.062	1.00	26.24
ATOM	15078	CA	GLY	2248	18.052	-15.442	44.209	1.00	29.60
ATOM	15079	C	GLY	2248	18.844	-14.872	43.387	1.00	31.45
ATOM	15080	O	GLY	2248	19.954	-14.452	43.241	1.00	31.15
ATOM	15081	N	TYR	2250	18.275	-14.848	43.583	1.00	33.81
ATOM	15082	CA	TYR	2250	18.443	-14.330	43.718	1.00	36.96
ATOM	15083	CB	TYR	2250	17.419	-13.608	43.638	1.00	38.09
ATOM	15084	CG	TYR	2250	17.156	-12.453	47.945	1.00	40.93
ATOM	15085	CD1	TYR	2250	15.446	-12.640	47.247	1.00	41.37
ATOM	15086	CD2	TYR	2250	15.313	-11.580	45.584	1.00	43.82
ATOM	15087	CD3	TYR	2250	17.694	-11.174	47.970	1.00	41.83
ATOM	15088	CE2	TYR	2250	17.566	-10.108	47.314	1.00	43.92
ATOM	15089	CZ	TYR	2250	15.302	-10.317	46.604	1.00	43.98
ATOM	15090	OH	TYR	2250	15.311	-9.264	45.971	1.00	45.48
ATOM	15091	O	TYR	2250	19.484	-15.477	48.518	1.00	37.32
ATOM	15092	C	TYR	2250	18.359	-16.090	49.392	1.00	38.17
ATOM	15093	N	LYS	2251	20.741	-15.755	49.204	1.00	37.64
ATOM	15094	CA	LYS	2251	21.481	-16.839	43.880	1.00	37.41
ATOM	15095	CB	LYS	2251	22.913	-17.776	47.712	1.00	37.45
ATOM	15096	CG	LYS	2251	20.464	-18.168	46.711	1.00	37.53
ATOM	15097	CD	LYS	2251	21.580	-18.742	45.448	1.00	37.64
ATOM	15098	CE	LYS	2251	20.619	-19.954	44.415	1.00	37.43
ATOM	15099	NZ	LYS	2251	21.114	-19.517	43.119	1.00	38.97
ATOM	15100	O	LYS	2251	22.638	-18.367	44.649	1.00	37.37
ATOM	15101	O	LYS	2251	23.176	-18.121	49.368	1.00	36.96
ATOM	15102	H	VAL	2252	23.012	-17.018	50.796	1.00	37.82
ATOM	15103	CA	VAL	2252	24.106	-16.105	51.576	1.00	34.13
ATOM	15104	CB	VAL	2252	24.319	-17.621	52.717	1.00	34.53
ATOM	15105	CG1	VAL	2252	25.416	-17.137	53.651	1.00	39.17
ATOM	15106	CG2	VAL	2252	23.024	-17.821	53.477	1.00	34.33
ATOM	15107	O	VAL	2252	25.390	-16.497	50.759	1.00	39.59
ATOM	15108	C	VAL	2252	25.584	-17.340	49.798	1.00	39.94
ATOM	15109	N	GLN	2253	26.385	-15.574	51.144	1.00	40.19
ATOM	15110	CA	GLN	2253	27.520	-15.376	50.830	1.00	41.92
ATOM	15111	CB	GLN	2253	27.511	-14.658	49.743	1.00	42.00
ATOM	15112	CG	GLN	2253	28.197	-14.974	49.384	1.00	43.44
ATOM	15113	CD	GLN	2253	27.479	-14.425	47.349	1.00	42.91
ATOM	15114	CE	GLN	2253	26.375	-14.071	47.119	1.00	43.91
ATOM	15115	NE2	GLN	2253	28.316	-15.723	48.704	1.00	44.45
ATOM	15116	O	GLN	2253	28.597	-15.465	51.398	1.00	41.35
ATOM	15117	O	GLN	2253	28.527	-15.358	50.810	1.00	41.17
ATOM	15118	H	GLY	2254	29.895	-15.677	50.862	1.00	41.70
ATOM	15119	CA	GLY	2254	31.069	-16.175	51.929	1.00	43.67
ATOM	15120	C	GLY	2254	31.435	-16.259	51.691	1.00	44.95

ATOM	15121	O	GLY	2254	32.501	-37.466	52.581	1.00	47.08
ATOM	15122	N	AFG	2255	30.517	-38.140	51.814	1.00	48.47
ATOM	15123	CA	AFG	2255	30.742	-39.552	52.165	1.00	49.93
ATOM	15124	CB	AFG	2255	29.517	-40.378	51.696	1.00	50.98
ATOM	15125	CG	AFG	2255	28.284	-41.026	52.423	1.00	51.85
ATOM	15126	CD	AFG	2255	28.282	-41.425	53.867	1.00	52.47
ATOM	15127	NE	AFG	2255	27.062	-41.148	54.596	1.00	53.65
ATOM	15128	CZ	AFG	2255	25.864	-41.724	54.322	1.00	52.93
ATOM	15129	NH1	AFG	2255	25.708	-41.618	53.343	1.00	52.83
ATOM	15130	NH2	AFG	2255	24.786	-40.409	55.027	1.00	53.44
ATOM	15131	C	AFG	2255	31.966	-40.058	51.342	1.00	50.92
ATOM	15132	O	AFG	2255	31.965	-40.097	50.111	1.00	50.96
ATOM	15133	N	GLY	2256	33.010	-40.444	52.070	1.00	51.41
ATOM	15134	CA	GLY	2256	34.211	-40.938	51.419	1.00	52.44
ATOM	15135	C	GLY	2256	35.438	-41.069	51.677	1.00	52.97
ATOM	15136	O	GLY	2256	33.313	-39.854	51.819	1.00	52.51
ATOM	15137	N	ASP	2257	36.569	-41.694	51.752	1.00	53.48
ATOM	15138	CA	ASP	2257	35.188	-41.969	51.982	1.00	51.19
ATOM	15139	CB	ASP	2257	34.063	-41.934	52.009	1.00	55.66
ATOM	15140	CG	ASP	2257	33.061	-41.870	53.165	1.00	56.10
ATOM	15141	OD1	ASP	2257	34.777	-41.557	54.257	1.00	56.83
ATOM	15142	OD2	ASP	2257	33.667	-41.177	52.767	1.00	58.01
ATOM	15143	C	ASP	2257	38.164	-41.883	50.925	1.00	57.11
ATOM	15144	O	ASP	2257	38.756	-41.741	51.262	1.00	57.60
ATOM	15145	N	GLU	2258	37.989	-40.273	49.666	1.00	51.48
ATOM	15146	CA	GLU	2258	38.215	-39.315	48.576	1.00	51.39
ATOM	15147	CB	GLU	2258	38.115	-38.301	47.254	1.00	51.16
ATOM	15148	CG	GLU	2258	38.361	-37.169	48.012	1.00	51.82
ATOM	15149	CD	GLU	2258	38.663	-36.919	44.772	1.00	53.62
ATOM	15150	OE1	GLU	2258	38.168	-35.819	44.695	1.00	58.63
ATOM	15151	OE2	GLU	2258	37.773	-35.913	43.867	1.00	56.41
ATOM	15152	C	GLU	2258	37.010	-35.188	48.616	1.00	49.36
ATOM	15153	O	GLU	2258	37.533	-35.010	48.567	1.00	48.14
ATOM	15154	N	ALA	2259	35.969	-37.517	48.711	1.00	47.48
ATOM	15155	CA	ALA	2259	34.877	-36.511	48.778	1.00	47.65
ATOM	15156	CB	ALA	2259	33.110	-37.181	48.745	1.00	47.71
ATOM	15157	C	ALA	2259	33.064	-37.688	50.046	1.00	47.73
ATOM	15158	O	ALA	2259	34.742	-36.481	50.047	1.00	48.37
ATOM	15159	N	GLY	2260	35.466	-36.380	51.121	1.00	47.56
ATOM	15160	CA	GLY	2260	35.644	-35.652	52.340	1.00	47.13
ATOM	15161	C	GLY	2260	36.704	-34.645	52.338	1.00	46.59
ATOM	15162	O	GLY	2260	36.680	-34.514	52.867	1.00	46.79
ATOM	15163	N	ASP	2261	35.953	-35.056	51.744	1.00	48.16
ATOM	15164	CA	ASP	2261	34.070	-34.182	51.647	1.00	58.24
ATOM	15165	CB	ASP	2261	47.021	-34.919	51.141	1.00	59.33
ATOM	15166	CG	ASP	2261	46.635	-34.142	52.015	1.00	46.38
ATOM	15167	OD1	ASP	2261	46.613	-33.950	53.267	1.00	49.90
ATOM	15168	OD2	ASP	2261	46.163	-33.214	51.477	1.00	47.70
ATOM	15169	C	ASP	2261	34.735	-33.012	50.707	1.00	46.18
ATOM	15170	O	ASP	2261	34.279	-31.915	50.895	1.00	47.71
ATOM	15171	N	GLN	2262	37.461	-33.219	49.645	1.00	47.55
ATOM	15172	CA	GLN	2262	37.533	-32.246	48.728	1.00	47.97
ATOM	15173	CB	GLN	2262	36.713	-31.834	47.677	1.00	47.41
ATOM	15174	CG	GLN	2262	36.361	-31.864	46.534	1.00	47.06
ATOM	15175	CD	GLN	2262	35.568	-31.264	45.841	1.00	48.05
ATOM	15176	OE1	GLN	2262	35.433	-32.019	45.133	1.00	47.24
ATOM	15177	NH2	GLN	2262	35.665	-31.966	45.791	1.00	47.19
ATOM	15178	C	GLN	2262	36.813	-31.112	49.445	1.00	47.47
ATOM	15179	O	GLN	2262	37.113	-31.499	49.177	1.00	47.28
ATOM	15180	N	LEU	2263	36.843	-31.468	50.244	1.00	47.81
ATOM	15181	CA	LEU	2263	37.115	-31.478	51.028	1.00	47.73
ATOM	15182	CB	LEU	2263	36.968	-31.163	51.766	1.00	47.61
ATOM	15183	CG	LEU	2263	36.813	-31.775	50.973	1.00	47.11
ATOM	15184	CD	LEU	2263	36.733	-31.282	51.935	1.00	47.23
ATOM	15185	CE	LEU	2263	36.233	-31.662	50.973	1.00	47.74
ATOM	15186	C	LEU	2263	36.943	-31.711	51.936	1.00	47.69
ATOM	15187	O	LEU	2263	36.874	-31.464	52.116	1.00	47.26
ATOM	15188	N	LEU	2264	36.683	-30.498	52.673	1.00	47.91
ATOM	15189	CA	LEU	2264	36.789	-29.762	53.613	1.00	47.33
ATOM	15190	CB	LEU	2264	36.764	-30.634	54.258	1.00	47.47
ATOM	15191	CG	LEU	2264	36.783	-30.443	55.633	1.00	47.11
ATOM	15192	CD	LEU	2264	36.170	-31.648	56.068	1.00	47.67
ATOM	15193	CE	LEU	2264	35.669	-32.188	55.623	1.00	47.33
ATOM	15194	C	LEU	2264	36.831	-32.741	52.855	1.00	46.63
ATOM	15195	O	LEU	2264	36.761	-32.594	54.275	1.00	46.93
ATOM	15196	N	SER	2265	36.166	-31.177	52.733	1.00	45.34
ATOM	15197	CA	SER	2265	46.168	-32.231	51.418	1.00	45.18

ATOM	15198	CB	SER	2265	40.546	-29.036	49.686	1.00	25.94
ATOM	15199	OG	SEP	2265	41.362	-28.193	48.895	1.00	26.74
ATOM	15200	C	SEP	2265	39.257	-27.067	50.475	1.00	24.21
ATOM	15201	O	SEP	2265	39.740	-25.945	50.524	1.00	22.95
ATOM	15202	N	ASI	2266	37.998	-27.796	50.014	1.00	21.62
ATOM	15203	CA	ASI	2266	37.124	-26.115	49.594	1.00	24.68
ATOM	15204	CB	ASF	2266	35.865	-26.576	49.045	1.00	25.99
ATOM	15205	CG	ASF	2266	35.959	-27.401	47.671	1.00	29.42
ATOM	15206	OD1	ASF	2266	36.555	-26.734	46.775	1.00	31.95
ATOM	15207	OD2	ASF	2266	35.496	-28.545	47.478	1.00	34.49
ATOM	15208	C	ASF	2266	36.825	-25.231	50.724	1.00	22.16
ATOM	15209	O	ASF	2266	36.865	-24.613	50.529	1.00	22.29
ATOM	15210	N	ALA	2267	36.531	-25.767	51.902	1.00	22.20
ATOM	15211	CA	ALA	2267	36.255	-24.944	52.059	1.00	20.53
ATOM	15212	CB	ALA	2267	35.952	-25.846	54.240	1.00	19.05
ATOM	15213	C	ALA	2267	37.419	-24.031	52.354	1.00	20.70
ATOM	15214	O	ALA	2267	37.247	-22.817	52.546	1.00	18.09
ATOM	15215	N	LEU	2268	38.625	-24.544	51.358	1.00	19.57
ATOM	15216	CA	LEU	2268	38.812	-23.751	52.629	1.00	22.22
ATOM	15217	CB	LEU	2268	41.054	-24.641	51.712	1.00	22.35
ATOM	15218	CG	LEU	2268	41.220	-25.442	54.867	1.00	24.44
ATOM	15219	CD1	LEU	2268	42.400	-26.448	54.350	1.00	24.11
ATOM	15220	CD2	LEU	2268	41.448	-24.518	56.173	1.00	27.26
ATOM	15221	C	LEU	2268	40.916	-22.746	52.144	1.00	21.76
ATOM	15222	O	LEU	2268	40.387	-21.640	52.337	1.00	23.46
ATOM	15223	N	ALA	2269	39.775	-23.113	52.195	1.00	21.45
ATOM	15224	CA	ALA	2269	39.944	-22.104	52.154	1.00	22.17
ATOM	15225	CB	ALA	2269	39.709	-20.948	48.153	1.00	22.22
ATOM	15226	C	ALA	2269	38.663	-21.515	50.185	1.00	21.91
ATOM	15227	O	ALA	2269	39.399	-19.681	50.181	1.00	21.07
ATOM	15228	N	LEU	2270	37.743	-21.145	50.860	1.00	19.85
ATOM	15229	CA	LEU	2270	36.761	-20.115	50.715	1.00	21.19
ATOM	15230	CB	LEU	2270	36.577	-20.844	52.628	1.00	19.10
ATOM	15231	CG	LEU	2270	34.777	-21.637	49.160	1.00	20.95
ATOM	15232	CD1	LEU	2270	32.483	-23.116	50.182	1.00	20.15
ATOM	15233	CD2	LEU	2270	34.599	-20.763	48.682	1.00	20.41
ATOM	15234	C	LEU	2270	37.162	-19.189	52.182	1.00	20.84
ATOM	15235	O	LEU	2270	35.637	-19.840	52.181	1.00	21.25
ATOM	15236	N	GLU	2271	37.644	-19.864	52.182	1.00	22.99
ATOM	15237	CA	GLU	2271	38.072	-19.652	54.111	1.00	22.49
ATOM	15238	CB	GLU	2271	38.484	-19.549	55.117	1.00	23.48
ATOM	15239	CG	GLU	2271	39.110	-18.108	56.111	1.00	24.86
ATOM	15240	CD	GLU	2271	39.540	-20.646	57.105	1.00	27.12
ATOM	15241	OE1	GLU	2271	40.279	-21.149	57.150	1.00	26.64
ATOM	15242	OE2	GLU	2271	39.143	-19.841	58.110	1.00	25.55
ATOM	15243	C	GLU	2271	39.241	-18.112	53.104	1.00	22.11
ATOM	15244	O	GLU	2271	39.270	-16.933	54.118	1.00	22.92
ATOM	15245	N	ALA	2272	40.205	-18.103	52.102	1.00	23.39
ATOM	15246	CA	ALA	2272	41.370	-17.948	52.158	1.00	23.06
ATOM	15247	CB	ALA	2272	42.409	-18.848	51.146	1.00	23.50
ATOM	15248	C	ALA	2272	40.978	-16.895	51.157	1.00	23.51
ATOM	15249	O	ALA	2272	41.648	-15.836	51.145	1.00	23.19
ATOM	15250	N	ALA	2273	39.893	-17.881	50.101	1.00	23.35
ATOM	15251	CA	ALA	2273	39.413	-16.135	49.106	1.00	22.95
ATOM	15252	CB	ALA	2273	38.442	-16.434	43.164	1.00	21.14
ATOM	15253	C	ALA	2273	38.734	-14.435	53.111	1.00	21.75
ATOM	15254	O	ALA	2273	38.515	-13.408	44.139	1.00	21.40
ATOM	15255	N	GLY	2274	38.490	-15.166	51.158	1.00	21.37
ATOM	15256	CA	GLY	2274	37.747	-13.961	51.145	1.00	21.35
ATOM	15257	C	GLY	2274	37.659	-14.162	53.178	1.00	21.17
ATOM	15258	O	GLY	2274	37.618	-13.932	53.135	1.00	21.65
ATOM	15259	N	ALA	2275	37.885	-15.175	51.138	1.00	22.31
ATOM	15260	CA	ALA	2275	37.596	-15.331	53.139	1.00	20.83
ATOM	15261	CB	ALA	2275	37.218	-17.257	53.137	1.00	22.14
ATOM	15262	C	ALA	2275	37.073	-15.809	53.119	1.00	21.17
ATOM	15263	O	ALA	2275	37.116	-15.184	53.134	1.00	20.62
ATOM	15264	N	GLN	2276	37.684	-15.139	55.104	1.00	21.21
ATOM	15265	CA	GLN	2276	37.667	-14.850	57.151	1.00	21.02
ATOM	15266	CB	GLN	2276	37.293	-13.402	57.178	1.00	22.06
ATOM	15267	CG	GLN	2276	37.292	-12.356	56.143	1.00	24.47
ATOM	15268	C	GLN	2276	37.659	-10.894	57.156	1.00	27.97
ATOM	15269	OE1	GLN	2276	37.022	-10.441	58.112	1.00	29.73
ATOM	15270	NE1	GLN	2276	37.418	-10.132	56.155	1.00	27.89
ATOM	15271	O	GLN	2276	37.521	-13.817	57.152	1.00	20.18
ATOM	15272	N	GLN	2276	37.606	-15.819	58.198	1.00	18.91
ATOM	15273	N	LEU	2277	37.148	-14.145	56.161	1.00	18.68
ATOM	15274	CA	LEU	2277	37.115	-12.148	57.148	1.00	14.05

ATCM	15275	CB	LEU	2277	29.735	-17.009	57.677	1.00	21.48
ATCM	15276	CG	LEU	2277	29.240	-16.728	59.113	1.00	23.83
ATCM	15277	CD1	LEU	2277	27.993	-15.939	59.698	1.00	24.53
ATCM	15278	CD2	LEU	2277	29.185	-18.040	59.848	1.00	26.07
ATCM	15279	C	LEU	2277	30.946	-18.787	56.485	1.00	19.50
ATCM	15280	C	LEU	2277	31.150	-18.591	55.291	1.00	19.06
ATCM	15281	N	LEU	2278	30.689	-18.978	56.978	1.00	19.37
ATCM	15282	CA	LEU	2278	30.511	-11.141	56.214	1.00	20.54
ATCM	15283	CB	LEU	2278	31.745	-11.980	56.380	1.00	21.74
ATCM	15284	CG	LEU	2278	31.702	-13.321	55.329	1.00	23.36
ATCM	15285	CD1	LEU	2278	31.185	-23.110	53.910	1.00	21.69
ATCM	15286	CD2	LEU	2278	33.070	-23.977	55.307	1.00	23.69
ATCM	15287	C	LEU	2278	29.367	-22.036	56.160	1.00	20.51
ATCM	15288	O	LEU	2278	29.272	-12.346	57.746	1.00	19.68
ATCM	15289	N	VAL	2278	28.541	-22.451	55.607	1.00	19.72
ATCM	15290	CA	VAL	2278	27.441	-23.340	55.809	1.00	20.12
ATCM	15291	CB	VAL	2278	26.065	-17.829	55.195	1.00	19.59
ATCM	15292	CG1	VAL	2278	25.047	-13.929	55.348	1.00	21.46
ATCM	15293	CG2	VAL	2278	25.569	-11.615	56.163	1.00	17.21
ATCM	15294	C	VAL	2278	25.777	-14.751	55.154	1.00	19.77
ATCM	15295	O	VAL	2278	28.147	-14.878	54.102	1.00	20.23
ATCM	15296	N	LEU	2280	27.517	-25.744	56.191	1.00	18.40
ATCM	15297	CA	LEU	2280	27.713	-13.133	55.787	1.00	19.76
ATCM	15298	CB	LEU	2280	28.746	-13.843	56.717	1.00	21.85
ATCM	15299	CG	LEU	2280	30.177	-13.418	56.656	1.00	24.85
ATCM	15300	CD1	LEU	2280	30.958	-13.141	57.741	1.00	25.93
ATCM	15301	CD2	LEU	2280	30.741	-13.745	55.278	1.00	25.21
ATCM	15302	C	LEU	2280	30.775	-13.811	55.865	1.00	19.77
ATCM	15303	O	LEU	2280	28.773	-13.843	56.962	1.00	20.23
ATCM	15304	N	GLU	2281	25.908	-13.964	54.781	1.00	20.23
ATCM	15305	CA	GLU	2281	24.615	-19.623	54.747	1.00	22.59
ATCM	15306	CB	GLU	2281	23.719	-18.328	53.715	1.00	24.29
ATCM	15307	CG	GLU	2281	22.411	-19.628	52.418	1.00	25.86
ATCM	15308	CD	GLU	2281	21.456	-18.177	52.593	1.00	28.07
ATCM	15309	DE1	GLU	2281	21.914	-17.108	51.965	1.00	17.68
ATCM	15310	DE2	GLU	2281	20.217	-16.486	51.331	1.00	30.09
ATCM	15311	O	GLU	2281	24.708	-16.111	54.437	1.00	23.66
ATCM	15312	C	GLU	2281	25.353	-16.928	53.474	1.00	24.09
ATCM	15313	N	CYS	2282	24.030	-13.326	51.271	1.00	24.83
ATCM	15314	CA	CYS	2282	24.007	-13.964	51.119	1.00	26.77
ATCM	15315	CB	CYS	2282	22.988	-13.136	54.648	1.00	27.28
ATCM	15316	CG	CYS	2282	21.317	-13.174	54.453	1.00	27.23
ATCM	15317	C	CYS	2282	25.354	-13.819	54.192	1.00	29.09
ATCM	15318	O	CYS	2282	25.623	-13.800	53.636	1.00	28.72
ATCM	15319	N	VAL	2283	26.133	-13.459	51.816	1.00	29.47
ATCM	15320	CA	VAL	2283	27.117	-14.425	51.703	1.00	32.15
ATCM	15321	CB	VAL	2283	28.173	-11.892	51.197	1.00	32.80
ATCM	15322	CG1	VAL	2283	28.431	-11.988	50.812	1.00	34.08
ATCM	15323	CG2	VAL	2283	29.967	-13.473	51.471	1.00	36.16
ATCM	15324	C	VAL	2283	27.735	-14.856	50.446	1.00	31.72
ATCM	15325	O	VAL	2283	27.325	-14.829	50.433	1.00	33.06
ATCM	15326	N	PFO	2284	26.510	-15.786	50.793	1.00	32.37
ATCM	15327	CD	PFO	2284	29.111	-16.704	50.614	1.00	31.82
ATCM	15328	CA	PFO	2284	28.787	-16.518	50.470	1.00	31.61
ATCM	15329	CB	PFO	2284	24.763	-17.856	52.439	1.00	31.74
ATCM	15330	CG	PFO	2284	30.493	-17.147	50.341	1.00	34.59
ATCM	15331	C	PFO	2284	23.167	-16.035	49.120	1.00	1.47
ATCM	15332	O	PFO	2284	30.139	-15.155	50.921	1.00	30.70
ATCM	15333	N	VAL	2285	28.465	-16.263	50.322	1.00	2.63
ATCM	15334	CA	VAL	2285	19.316	-16.561	51.014	1.00	33.69
ATCM	15335	CB	VAL	2285	28.795	-16.249	51.793	1.00	34.06
ATCM	15336	CG1	VAL	2285	29.136	-16.467	51.307	1.00	34.17
ATCM	15337	CG2	VAL	2285	27.956	-16.469	51.695	1.00	35.11
ATCM	15338	C	VAL	2285	29.435	-16.506	51.383	1.00	32.56
ATCM	15339	O	VAL	2285	31.467	-14.488	51.970	1.00	32.87
ATCM	15340	N	GLU	2286	31.439	-16.696	51.250	1.00	33.14
ATCM	15341	CA	GLU	2286	30.939	-16.702	51.225	1.00	33.30
ATCM	15342	CB	GLU	2286	33.493	-16.045	50.645	1.00	38.87
ATCM	15343	CG	GLU	2286	32.553	-16.236	51.031	1.00	33.96
ATCM	15344	CD	GLU	2286	31.132	-16.277	52.510	1.00	35.75
ATCM	15345	DE1	GLU	2286	33.165	-16.136	53.317	1.00	34.41
ATCM	15346	DE2	GLU	2286	31.937	-16.455	51.864	1.00	36.81
ATCM	15347	C	GLU	2286	33.570	-15.579	51.416	1.00	35.02
ATCM	15348	O	GLU	2286	34.451	-14.968	50.898	1.00	34.81
ATCM	15349	N	LEU	2287	33.119	-15.434	50.176	1.00	34.29
ATCM	15350	CA	LEU	2287	33.771	-14.403	50.084	1.00	36.45
ATCM	15351	CB	LEU	2287	32.773	-14.139	50.916	1.00	36.11

ATOM	15352	CG	LEU	2287	33.858	-34.344	55.677	1.00	36.84
ATOM	15353	CD1	LEU	2287	33.022	-34.555	54.424	1.00	36.74
ATOM	15354	CD2	LEU	2287	34.479	-32.965	55.682	1.00	38.47
ATOM	15355	C	LEU	2287	23.363	-33.021	58.869	1.00	32.89
ATOM	15356	O	LEU	2287	34.732	-32.148	58.842	1.00	31.87
ATOM	15357	N	ALA	2288	32.158	-32.826	59.401	1.00	32.19
ATOM	15358	CA	ALA	2288	31.779	-31.547	59.999	1.00	31.97
ATOM	15359	CB	ALA	2288	30.367	-31.630	60.571	1.00	31.59
ATOM	15360	C	ALA	2288	32.762	-31.183	61.100	1.00	31.77
ATOM	15361	O	ALA	2288	33.092	-29.990	61.372	1.00	28.78
ATOM	15362	N	LYS	2289	32.219	-32.188	61.842	1.00	32.20
ATOM	15363	CA	LYS	2289	34.171	-31.966	62.927	1.00	32.72
ATOM	15364	CB	LYS	2289	34.452	-33.283	63.632	1.00	36.63
ATOM	15365	CG	LYS	2289	32.229	-32.940	64.111	1.00	41.13
ATOM	15366	CD	LYS	2289	33.491	-35.400	64.616	1.00	42.87
ATOM	15367	CE	LYS	2289	31.259	-36.040	65.341	1.00	43.20
ATOM	15368	NZ	LYS	2289	31.389	-37.516	65.886	1.00	41.59
ATOM	15369	C	LYS	2289	31.418	-31.400	62.884	1.00	31.12
ATOM	15370	O	LYS	2289	31.966	-30.253	62.881	1.00	31.46
ATOM	15371	N	ARG	2290	34.014	-32.029	61.885	1.00	35.84
ATOM	15372	CA	ARG	2290	32.388	-31.663	60.373	1.00	34.39
ATOM	15373	CB	ARG	2290	31.674	-32.189	59.663	1.00	30.92
ATOM	15374	CG	ARG	2290	32.344	-33.981	60.184	1.00	38.76
ATOM	15375	CD	ARG	2290	31.859	-34.651	58.886	1.00	41.02
ATOM	15376	NE	ARG	2290	31.860	-35.247	58.183	1.00	44.41
ATOM	15377	CZ	ARG	2290	38.110	-35.840	61.881	1.00	45.62
ATOM	15378	NH1	ARG	2290	39.319	-35.711	66.120	1.00	45.39
ATOM	15379	NH2	ARG	2290	37.149	-36.400	66.175	1.00	46.26
ATOM	15380	C	ARG	2290	31.106	-30.214	60.115	1.00	31.61
ATOM	15381	O	ARG	2290	38.051	-39.386	60.187	1.00	33.99
ATOM	15382	N	ILE	2291	36.189	-39.966	59.481	1.00	31.56
ATOM	15383	CA	ILE	2291	35.996	-38.609	58.888	1.00	30.31
ATOM	15384	CB	ILE	2291	34.739	-38.509	57.881	1.00	31.02
ATOM	15385	CG2	ILE	2291	34.514	-37.110	57.110	1.00	30.84
ATOM	15386	CG1	ILE	2291	34.914	-39.589	56.181	1.00	31.84
ATOM	15387	CH1	ILE	2291	33.694	-39.728	55.888	1.00	31.14
ATOM	15388	C	ILE	2291	35.860	-37.568	59.881	1.00	30.40
ATOM	15389	O	ILE	2291	36.503	-36.507	59.881	1.00	36.92
ATOM	15390	N	THR	2292	35.035	-37.841	60.181	1.00	30.90
ATOM	15391	CA	THR	2292	34.819	-36.904	62.111	1.00	30.75
ATOM	15392	CB	THR	2292	33.518	-37.406	63.810	1.00	33.08
ATOM	15393	CG1	THR	2292	32.489	-37.555	62.186	1.00	30.31
ATOM	15394	CG2	THR	2292	33.597	-36.413	64.114	1.00	32.19
ATOM	15395	C	THR	2292	36.086	-36.831	62.860	1.00	29.42
ATOM	15396	O	THR	2292	36.319	-35.501	63.388	1.00	34.54
ATOM	15397	N	GLU	2293	31.909	-37.361	63.881	1.00	30.75
ATOM	15398	CA	GLU	2293	38.138	-37.329	63.811	1.00	32.00
ATOM	15399	CB	GLU	2293	38.578	-38.304	64.842	1.00	35.28
ATOM	15400	CG	GLU	2293	37.547	-39.570	65.188	1.00	33.73
ATOM	15401	CD	GLU	2293	37.976	-39.858	65.686	1.00	33.81
ATOM	15402	OE1	GLU	2293	38.399	-31.183	64.881	1.00	34.46
ATOM	15403	OE2	GLU	2293	37.889	-31.150	66.488	1.00	33.17
ATOM	15404	C	GLU	2293	38.252	-36.829	62.088	1.00	31.90
ATOM	15405	O	GLU	2293	40.175	-26.106	63.487	1.00	31.34
ATOM	15406	N	ALA	2294	39.159	-27.102	61.689	1.00	30.60
ATOM	15407	CA	ALA	2294	40.180	-26.131	60.784	1.00	30.19
ATOM	15408	CB	ALA	2294	40.190	-27.104	59.186	1.00	30.45
ATOM	15409	C	ALA	2294	40.015	-25.189	60.417	1.00	30.58
ATOM	15410	O	ALA	2294	40.996	-24.104	60.159	1.00	27.98
ATOM	15411	N	LEU	2295	38.776	-24.620	60.181	1.00	28.57
ATOM	15412	CA	LEU	2295	38.501	-23.115	60.111	1.00	28.11
ATOM	15413	CB	LEU	2295	37.178	-23.132	59.313	1.00	28.80
ATOM	15414	CG	LEU	2295	37.097	-23.134	57.387	1.00	28.63
ATOM	15415	CD	LEU	2295	37.761	-23.161	57.323	1.00	28.37
ATOM	15416	OE1	LEU	2295	38.242	-23.119	57.117	1.00	28.59
ATOM	15417	C	LEU	2295	38.449	-23.330	61.333	1.00	24.44
ATOM	15418	O	LEU	2295	37.961	-22.682	62.383	1.00	25.11
ATOM	15419	N	ALA	2296	38.953	-21.034	61.118	1.00	25.89
ATOM	15420	CA	ALA	2296	38.944	-20.102	62.212	1.00	25.79
ATOM	15421	CB	ALA	2296	40.053	-19.036	61.945	1.00	25.57
ATOM	15422	C	ALA	2296	37.591	-19.402	62.339	1.00	24.75
ATOM	15423	O	ALA	2296	37.079	-19.000	63.211	1.00	22.57
ATOM	15424	N	ILE	2297	37.015	-19.253	61.613	1.00	21.47
ATOM	15425	CA	ILE	2297	35.715	-18.601	60.877	1.00	22.31
ATOM	15426	CB	ILE	2297	35.407	-18.223	59.411	1.00	22.81
ATOM	15427	CD	ILE	2297	36.461	-17.190	58.958	1.00	25.31
ATOM	15428	CE	ILE	2297	35.418	-17.481	58.548	1.00	22.10

ATOM	15429	CD1	ILE	2297	34.938	-19.252	57.130	1.00	23.01
ATOM	15430	C	ILE	2297	34.621	-19.553	61.354	1.00	21.65
ATOM	15431	O	ILE	2297	34.782	-20.768	61.288	1.00	22.46
ATOM	15432	N	PRO	2298	33.499	-19.009	61.836	1.00	22.66
ATOM	15433	CD	PRO	2298	33.188	-17.587	62.064	1.00	22.11
ATOM	15434	CA	PRO	2298	32.417	-19.873	62.211	1.00	20.85
ATOM	15435	CB	PRO	2298	31.437	-18.884	62.547	1.00	21.75
ATOM	15436	CG	PRO	2298	31.696	-17.610	62.208	1.00	24.05
ATOM	15437	C	PRO	2298	31.793	-20.728	61.213	1.00	22.19
ATOM	15438	O	PRO	2298	31.678	-20.304	60.662	1.00	20.87
ATOM	15439	N	VAL	2299	31.416	-21.945	61.585	1.00	20.48
ATOM	15440	CA	VAL	2299	30.802	-22.899	60.669	1.00	21.54
ATOM	15441	CB	VAL	2299	31.628	-24.108	60.616	1.00	21.85
ATOM	15442	CG1	VAL	2299	30.963	-25.777	59.704	1.00	19.69
ATOM	15443	CG2	VAL	2299	33.025	-23.901	60.144	1.00	21.05
ATOM	15444	C	VAL	2299	29.585	-23.134	62.123	1.00	22.17
ATOM	15445	O	VAL	2299	29.189	-23.842	62.182	1.00	23.34
ATOM	15446	N	ILE	2300	28.402	-21.837	60.221	1.00	19.12
ATOM	15447	CA	ILE	2300	27.661	-23.039	60.641	1.00	18.65
ATOM	15448	CB	ILE	2300	26.677	-21.977	60.142	1.00	20.40
ATOM	15449	CG1	ILE	2300	24.673	-21.176	60.397	1.00	19.56
ATOM	15450	CG2	ILE	2300	26.380	-20.741	60.126	1.00	20.26
ATOM	15451	C	ILE	2300	25.706	-19.424	60.534	1.00	22.74
ATOM	15452	O	ILE	2300	26.566	-24.777	59.566	1.00	18.25
ATOM	15453	O	ILE	2300	26.727	-24.148	58.751	1.00	18.55
ATOM	15454	N	GLY	2301	26.967	-25.833	60.741	1.00	16.44
ATOM	15455	CA	GLY	2301	25.581	-26.763	60.168	1.00	17.23
ATOM	15456	C	GLY	2301	24.666	-26.811	60.070	1.00	20.10
ATOM	15457	O	GLY	2301	23.782	-26.118	60.800	1.00	17.24
ATOM	15458	N	ILE	2302	23.777	-27.663	59.134	1.00	21.06
ATOM	15459	CA	ILE	2302	22.848	-28.174	59.889	1.00	22.05
ATOM	15460	CB	ILE	2302	21.621	-27.163	57.871	1.00	26.00
ATOM	15461	CG2	ILE	2302	22.502	-26.896	58.653	1.00	27.12
ATOM	15462	CG1	ILE	2302	20.395	-27.790	57.452	1.00	27.86
ATOM	15463	CD1	ILE	2302	19.471	-27.837	52.777	1.00	31.87
ATOM	15464	C	ILE	2302	22.353	-29.127	58.158	1.00	25.26
ATOM	15465	O	ILE	2302	22.547	-29.760	58.017	1.00	25.36
ATOM	15466	N	GLY	2303	22.126	-30.193	58.100	1.00	24.99
ATOM	15467	CA	GLY	2303	22.014	-31.487	58.791	1.00	24.67
ATOM	15468	C	GLY	2303	23.715	-32.198	58.862	1.00	26.35
ATOM	15469	O	GLY	2303	24.144	-33.378	58.152	1.00	25.82
ATOM	15470	N	ALA	2304	24.372	-31.830	59.331	1.00	26.01
ATOM	15471	CA	ALA	2304	25.895	-31.923	59.310	1.00	26.93
ATOM	15472	CB	ALA	2304	26.721	-30.726	59.447	1.00	26.51
ATOM	15473	C	ALA	2304	26.147	-32.191	61.357	1.00	27.19
ATOM	15474	O	ALA	2304	27.121	-32.731	61.721	1.00	27.78
ATOM	15475	N	GLY	2305	25.127	-32.370	62.184	1.00	29.32
ATOM	15476	CA	GLY	2305	25.465	-32.796	63.580	1.00	29.51
ATOM	15477	C	GLY	2305	25.569	-31.764	64.453	1.00	29.45
ATOM	15478	O	GLY	2305	25.335	-30.447	63.498	1.00	29.59
ATOM	15479	N	ASN	2306	25.934	-31.766	65.725	1.00	27.36
ATOM	15480	CA	ASN	2306	26.362	-30.563	66.672	1.00	27.30
ATOM	15481	CB	ASN	2306	25.494	-32.029	68.914	1.00	26.17
ATOM	15482	CG	ASN	2306	26.124	-32.165	68.750	1.00	29.23
ATOM	15483	CD1	ASN	2306	25.331	-32.463	69.402	1.00	30.22
ATOM	15484	ND2	ASN	2306	27.006	-31.791	68.393	1.00	31.13
ATOM	15485	C	ASN	2306	27.138	-30.240	66.415	1.00	27.30
ATOM	15486	O	ASN	2306	27.831	-29.553	67.496	1.00	26.84
ATOM	15487	N	VAL	2307	28.306	-30.632	66.314	1.00	27.99
ATOM	15488	CA	VAL	2307	28.812	-30.302	66.150	1.00	27.99
ATOM	15489	CB	VAL	2307	29.528	-31.372	65.191	1.00	29.66
ATOM	15490	CG1	VAL	2307	32.239	-31.134	65.843	1.00	32.47
ATOM	15491	CG2	VAL	2307	30.172	-31.762	65.947	1.00	29.89
ATOM	15492	C	VAL	2307	30.168	-28.950	65.533	1.00	26.80
ATOM	15493	O	VAL	2307	31.127	-28.414	65.756	1.00	25.00
ATOM	15494	N	THR	2308	29.331	-30.192	64.753	1.00	25.35
ATOM	15495	CA	THR	2308	28.165	-27.113	64.116	1.00	24.44
ATOM	15496	CB	THR	2308	28.486	-26.390	62.930	1.00	24.99
ATOM	15497	CG1	THR	2308	27.134	-27.738	63.384	1.00	23.48
ATOM	15498	CG2	THR	2308	28.758	-27.897	61.815	1.00	23.59
ATOM	15499	C	THR	2308	28.293	-25.996	65.137	1.00	23.65
ATOM	15500	O	THR	2308	28.154	-24.169	64.167	1.00	25.02
ATOM	15501	N	ASP	2309	29.271	-24.834	64.834	1.00	23.25
ATOM	15502	CA	ASP	2309	29.785	-23.684	65.726	1.00	22.71
ATOM	15503	CB	ASP	2309	31.642	-22.546	65.189	1.00	23.91
ATOM	15504	CG	ASP	2309	31.098	-22.940	65.642	1.00	23.82
ATOM	15505	C	ASP	2309	31.221	-21.298	64.970	1.00	21.68

ATOM	15506	OD2	ASP	2309	32.609	-22.900	63.904	1.00	22.96
ATOM	15507	C	ASP	2309	28.551	-23.206	65.887	1.00	22.86
ATOM	15508	O	ASP	2309	27.937	-22.743	66.900	1.00	23.77
ATOM	15509	N	GLY	2310	27.592	-23.157	64.798	1.00	23.67
ATOM	15510	CA	GLY	2310	26.209	-22.814	64.837	1.00	21.62
ATOM	15511	C	GLY	2310	25.283	-23.769	64.130	1.00	20.15
ATOM	15512	O	GLY	2310	25.731	-24.742	63.533	1.00	19.40
ATOM	15513	N	GLN	2311	23.986	-23.483	64.130	1.00	21.71
ATOM	15514	CA	GLN	2311	22.990	-24.337	63.533	1.00	19.77
ATOM	15515	CB	GLN	2311	22.204	-25.118	64.530	1.00	20.52
ATOM	15516	CG	GLN	2311	23.001	-26.179	63.830	1.00	23.52
ATOM	15517	CD	GLN	2311	23.541	-27.347	64.330	1.00	21.75
ATOM	15518	OE1	GLN	2311	22.848	-27.687	63.474	1.00	21.80
ATOM	15519	NE2	GLN	2311	24.780	-27.666	64.623	1.00	21.19
ATOM	15520	C	GLN	2311	22.009	-23.445	63.776	1.00	20.67
ATOM	15521	O	GLN	2311	21.772	-22.328	63.070	1.00	17.41
ATOM	15522	N	ILE	2312	21.447	-24.086	61.676	1.00	21.09
ATOM	15523	CA	ILE	2312	20.467	-23.347	60.337	1.00	21.89
ATOM	15524	CB	ILE	2312	21.110	-22.706	59.630	1.00	19.12
ATOM	15525	CG2	ILE	2312	21.594	-23.756	59.670	1.00	20.63
ATOM	15526	CG1	ILE	2312	20.130	-21.773	58.230	1.00	17.58
ATOM	15527	CD1	ILE	2312	20.741	-20.666	58.230	1.00	20.83
ATOM	15528	C	ILE	2312	19.242	-24.130	60.477	1.00	17.16
ATOM	15529	O	ILE	2312	19.570	-25.481	60.231	1.00	18.46
ATOM	15530	N	LEU	2313	18.110	-23.574	60.430	1.00	22.96
ATOM	15531	CA	LEU	2313	16.951	-24.034	60.330	1.00	19.89
ATOM	15532	CB	LEU	2313	16.458	-25.318	61.130	1.00	23.34
ATOM	15533	CG	LEU	2313	16.079	-26.730	61.130	1.00	16.67
ATOM	15534	CD1	LEU	2313	15.477	-27.236	62.430	1.00	20.76
ATOM	15535	CD2	LEU	2313	15.110	-27.077	61.030	1.00	19.13
ATOM	15536	C	LEU	2313	15.877	-23.765	59.434	1.00	19.08
ATOM	15537	O	LEU	2313	15.782	-22.978	58.730	1.00	26.34
ATOM	15538	N	VAL	2314	15.088	-24.386	63.830	1.00	13.13
ATOM	15539	CA	VAL	2314	15.984	-21.396	62.330	1.00	26.96
ATOM	15540	CB	VAL	2314	15.493	-24.457	66.617	1.00	18.17
ATOM	15541	CG1	VAL	2314	15.310	-23.392	65.030	1.00	13.10
ATOM	15542	CG2	VAL	2314	14.836	-24.038	65.030	1.00	13.18
ATOM	15543	C	VAL	2314	15.837	-23.328	62.330	1.00	25.32
ATOM	15544	O	VAL	2314	15.281	-24.654	60.330	1.00	20.30
ATOM	15545	N	MET	2315	15.444	-22.431	60.330	1.00	21.58
ATOM	15546	CA	MET	2315	15.367	-22.198	60.330	1.00	21.58
ATOM	15547	CB	MET	2315	15.055	-20.712	60.330	1.00	20.69
ATOM	15548	CG	MET	2315	10.539	-20.145	58.330	1.00	20.17
ATOM	15549	SD	MET	2315	9.305	-18.854	59.130	1.00	13.44
ATOM	15550	CE	MET	2315	7.864	-19.873	59.410	1.00	17.93
ATOM	15551	C	MET	2315	10.102	-23.096	59.330	1.00	21.84
ATOM	15552	O	MET	2315	4.430	-23.463	60.730	1.00	24.09
ATOM	15553	N	HIS	2316	4.807	-23.162	58.130	1.00	23.04
ATOM	15554	CA	HIS	2316	8.616	-23.903	58.130	1.00	23.87
ATOM	15555	CB	HIS	2316	8.445	-23.796	56.630	1.00	21.29
ATOM	15556	CG	HIS	2316	7.970	-22.448	56.130	1.00	20.22
ATOM	15557	CD2	HIS	2316	3.661	-11.318	55.913	1.00	17.37
ATOM	15558	ND1	HIS	2316	6.633	-12.120	56.130	1.00	20.75
ATOM	15559	CE1	HIS	2316	6.511	-10.744	58.830	1.00	20.50
ATOM	15560	NE2	HIS	2316	7.731	-10.333	58.630	1.00	20.64
ATOM	15561	C	HIS	2316	4.611	-15.760	58.630	1.00	24.41
ATOM	15562	O	HIS	2316	7.551	-15.763	58.130	1.00	23.54
ATOM	15563	N	ASP	2317	4.790	-25.936	58.815	1.00	25.53
ATOM	15564	CA	ASP	2317	4.850	-27.313	59.330	1.00	17.90
ATOM	15565	CB	ASP	2317	11.101	-23.629	58.813	1.00	21.10
ATOM	15566	CG	ASP	2317	10.334	-23.338	59.130	1.00	22.32
ATOM	15567	OD1	ASP	2317	4.436	-29.302	54.330	1.00	16.28
ATOM	15568	OD2	ASP	2317	11.944	-28.105	56.530	1.00	35.40
ATOM	15569	C	ASP	2317	4.974	-27.191	60.830	1.00	17.46
ATOM	15570	O	ASP	2317	4.268	-28.340	61.512	1.00	18.41
ATOM	15571	N	ALA	2318	11.571	-26.304	61.410	1.00	18.19
ATOM	15572	CA	ALA	2318	15.703	-26.354	62.813	1.00	19.17
ATOM	15573	CB	ALA	2318	11.566	-24.346	63.130	1.00	21.06
ATOM	15574	C	ALA	2318	8.357	-26.325	63.530	1.00	10.52
ATOM	15575	O	ALA	2318	5.230	-26.371	64.530	1.00	10.59
ATOM	15576	N	PHE	2319	4.355	-25.326	62.830	1.00	19.73
ATOM	15577	CA	PHE	2319	7.029	-25.357	63.416	1.00	19.63
ATOM	15578	CB	PHE	2319	6.545	-23.317	63.130	1.00	19.46
ATOM	15579	CG	PHE	2319	7.529	-21.686	61.711	1.00	11.82
ATOM	15580	CD1	PHE	2319	6.150	-21.626	64.950	1.00	12.14
ATOM	15581	ND1	PHE	2319	5.827	-21.778	62.928	1.00	12.09
ATOM	15582	CD2	PHE	2319	6.056	-21.767	65.398	1.00	12.50

ATOM	15583	CE2	PHE	2319	8.731	-20.818	63.365	1.00	32.42
ATOM	15584	CZ	PHE	2319	9.237	-20.961	64.605	1.00	33.77
ATOM	15585	C	PHE	2319	6.017	-20.516	62.818	1.00	18.48
ATOM	15586	C	PHE	2319	4.811	-20.111	62.941	1.00	29.39
ATOM	15587	N	GLY	2320	6.515	-17.360	62.175	1.00	10.40
ATOM	15588	CA	GLY	2320	5.039	-20.357	61.573	1.00	19.32
ATOM	15589	C	GLY	2320	4.618	-20.800	60.597	1.00	28.92
ATOM	15590	C	GLY	2320	3.574	-20.410	60.380	1.00	28.53
ATOM	15591	N	ILE	2321	4.915	-20.647	60.007	1.00	28.40
ATOM	15592	CA	ILE	2321	4.001	-20.029	59.047	1.00	18.56
ATOM	15593	CB	ILE	2321	4.421	-24.377	58.729	1.00	18.95
ATOM	15594	CG2	ILE	2321	3.532	-20.991	57.648	1.00	28.95
ATOM	15595	CG1	ILE	2321	4.542	-20.721	60.001	1.00	27.13
ATOM	15596	CD1	ILE	2321	4.875	-21.320	59.854	1.00	28.13
ATOM	15597	C	ILE	2321	3.946	-18.821	57.748	1.00	30.05
ATOM	15598	O	ILE	2321	2.856	-27.052	57.190	1.00	28.33
ATOM	15599	N	THR	2322	5.196	-20.249	57.264	1.00	31.75
ATOM	15600	CA	THR	2322	5.116	-20.000	56.031	1.00	27.43
ATOM	15601	CB	THR	2322	6.527	-17.941	55.417	1.00	19.64
ATOM	15602	CG1	THR	2322	7.431	-19.764	56.190	1.00	41.57
ATOM	15603	CG2	THR	2322	7.064	-20.320	55.413	1.00	38.00
ATOM	15604	C	THR	2322	4.533	-20.454	56.241	1.00	40.11
ATOM	15605	O	THR	2322	5.227	-30.111	57.147	1.00	43.84
ATOM	15606	N	GLY	2323	3.801	-19.941	55.415	1.00	40.01
ATOM	15607	CA	GLY	2323	3.239	-19.370	55.509	1.00	40.35
ATOM	15608	C	GLY	2323	3.536	-19.967	56.808	1.00	51.33
ATOM	15609	O	GLY	2323	3.226	-19.568	57.190	1.00	51.64
ATOM	15610	N	GLY	2324	4.090	-19.319	56.807	1.00	52.13
ATOM	15611	CA	GLA	2324	4.509	-19.900	56.116	1.00	51.56
ATOM	15612	C	GLY	2324	5.535	-19.078	56.040	1.00	50.07
ATOM	15613	O	GLY	2324	5.938	-19.351	59.076	1.00	57.01
ATOM	15614	N	HIS	2325	6.131	-14.889	56.884	1.00	50.17
ATOM	15615	CA	HIS	2325	7.121	-17.270	56.701	1.00	50.48
ATOM	15616	CB	HIS	2325	7.148	-19.864	55.477	1.00	58.75
ATOM	15617	CG	HIS	2325	5.909	-19.331	55.571	1.00	61.46
ATOM	15618	CD2	HIS	2325	4.882	-19.470	54.788	1.00	61.31
ATOM	15619	ND1	HIS	2325	5.852	-19.347	56.576	1.00	60.13
ATOM	15620	CE1	HIS	2325	4.723	-19.141	56.408	1.00	60.14
ATOM	15621	NE2	HIS	2325	4.121	-19.077	55.309	1.00	60.31
ATOM	15622	C	HIS	2325	8.571	-34.852	56.543	1.00	50.82
ATOM	15623	O	HIS	2325	9.174	-34.863	55.477	1.00	50.63
ATOM	15624	N	ILE	2326	8.958	-34.177	57.621	1.00	50.17
ATOM	15625	CA	ILE	2326	10.137	-35.118	57.601	1.00	50.07
ATOM	15626	CB	ILE	2326	10.230	-35.388	58.898	1.00	50.89
ATOM	15627	CG2	ILE	2326	8.991	-34.611	59.047	1.00	50.89
ATOM	15628	CG1	ILE	2326	10.380	-35.308	60.107	1.00	51.06
ATOM	15629	CD1	ILE	2326	10.620	-35.071	61.411	1.00	50.63
ATOM	15630	C	ILE	2326	11.498	-34.151	60.477	1.00	48.48
ATOM	15631	O	ILE	2326	11.400	-37.356	60.777	1.00	48.12
ATOM	15632	N	PRO	2327	12.521	-35.317	57.079	1.00	46.63
ATOM	15633	CD	PRO	2327	12.695	-35.159	56.748	1.00	46.53
ATOM	15634	CA	PRO	2327	13.789	-34.947	56.917	1.00	47.07
ATOM	15635	CB	PRO	2327	14.710	-35.105	56.296	1.00	47.93
ATOM	15636	CG	PRO	2327	14.194	-35.123	56.854	1.00	46.83
ATOM	15637	C	PRO	2327	14.317	-34.796	58.047	1.00	48.14
ATOM	15638	O	PRO	2327	13.991	-34.993	59.317	1.00	47.61
ATOM	15639	N	LYS	2328	15.144	-35.303	58.160	1.00	41.21
ATOM	15640	CA	LYS	2328	15.716	-36.450	59.354	1.00	33.78
ATOM	15641	CB	LYS	2328	16.536	-35.590	58.967	1.00	41.48
ATOM	15642	CG	LYS	2328	14.690	-35.147	58.617	1.00	40.93
ATOM	15643	CD	LYS	2328	14.780	-35.344	57.441	1.00	40.30
ATOM	15644	CE	LYS	2328	14.779	-36.779	57.215	1.00	40.48
ATOM	15645	NZ	LYS	2328	14.793	-36.463	56.165	1.00	40.27
ATOM	15646	C	LYS	2328	16.583	-35.513	60.181	1.00	31.61
ATOM	15647	O	LYS	2328	17.734	-35.713	61.376	1.00	31.87
ATOM	15648	N	PHE	2329	15.112	-34.403	59.503	1.00	31.28
ATOM	15649	CA	PHE	2329	17.995	-35.514	60.262	1.00	28.57
ATOM	15650	CB	PHE	2329	18.038	-35.967	59.315	1.00	28.07
ATOM	15651	CG	PHE	2329	18.480	-35.206	58.089	1.00	28.05
ATOM	15652	CD1	PHE	2329	17.854	-34.034	58.167	1.00	28.21
ATOM	15653	CD2	PHE	2329	18.506	-32.935	56.857	1.00	28.00
ATOM	15654	CE1	PHE	2329	17.470	-30.367	57.011	1.00	28.14
ATOM	15655	CE2	PHE	2329	18.026	-32.329	55.708	1.00	33.09
ATOM	15656	CE	PHE	2329	17.516	-31.023	55.785	1.00	29.29
ATOM	15657	C	PHE	2329	15.179	-32.365	60.896	1.00	28.32
ATOM	15658	O	PHE	2329	12.804	-34.968	61.649	1.00	24.18
ATOM	15659	N	ALA	2330	15.000	-35.000	60.597	1.00	10.00

ATOM	15660	CA	ALA	2330	15.051	-31.225	61.133	1.00	25.12
ATOM	15661	CB	ALA	2330	14.109	-30.721	60.048	1.00	24.79
ATOM	15662	C	ALA	2330	14.250	-31.701	62.336	1.00	25.45
ATOM	15663	O	ALA	2330	14.066	-32.900	62.540	1.00	26.65
ATOM	15664	N	LYS	2331	13.761	-30.751	63.112	1.00	25.57
ATOM	15665	CA	LYS	2331	12.966	-31.068	64.299	1.00	26.38
ATOM	15666	CB	LYS	2331	12.861	-31.095	65.541	1.00	26.14
ATOM	15667	CG	LYS	2331	12.178	-31.335	66.852	1.00	27.14
ATOM	15668	CD	LYS	2331	14.114	-31.421	68.012	1.00	27.67
ATOM	15669	CE	LYS	2331	13.404	-31.581	69.352	1.00	28.98
ATOM	15670	NZ	LYS	2331	14.389	-31.781	70.465	1.00	29.48
ATOM	15671	C	LYS	2331	11.845	-30.053	64.486	1.00	24.96
ATOM	15672	O	LYS	2331	12.060	-18.841	64.371	1.00	13.50
ATOM	15673	N	ASN	2332	10.647	-30.582	64.758	1.00	24.16
ATOM	15674	CA	ASN	2332	9.488	-29.690	64.981	1.00	22.93
ATOM	15675	CB	ASN	2332	8.197	-30.456	64.641	1.00	23.16
ATOM	15676	CG	ASN	2332	6.941	-29.691	64.955	1.00	22.69
ATOM	15677	OD1	ASN	2332	7.009	-28.540	65.474	1.00	23.16
ATOM	15678	OD2	ASN	2332	5.768	-30.216	64.641	1.00	18.07
ATOM	15679	C	ASN	2332	9.469	-18.256	64.416	1.00	13.14
ATOM	15680	O	ASN	2332	9.668	-16.156	65.311	1.00	13.07
ATOM	15681	N	PRO	2333	9.874	-18.654	66.728	1.00	18.71
ATOM	15682	CA	PRO	2333	9.884	-17.267	66.165	1.00	16.10
ATOM	15683	CB	PRO	2333	10.884	-16.411	66.141	1.00	17.67
ATOM	15684	CG	PRO	2333	12.117	-16.826	66.191	1.00	18.16
ATOM	15685	CD1	PRO	2333	12.835	-16.961	66.846	1.00	14.93
ATOM	15686	CD2	PRO	2333	13.881	-17.186	67.114	1.00	27.18
ATOM	15687	CE1	PRO	2333	14.210	-17.332	67.796	1.00	25.13
ATOM	15688	CE2	PRO	2333	14.316	-17.498	69.008	1.00	11.73
ATOM	15689	CZ	PRO	2333	14.882	-17.639	67.836	1.00	14.35
ATOM	15690	C	PRO	2333	8.809	-20.156	68.696	1.00	18.07
ATOM	15691	O	PRO	2333	8.105	-27.112	66.811	1.00	16.59
ATOM	15692	N	LEU	2334	7.833	-16.779	67.666	1.00	18.99
ATOM	15693	CA	LEU	2334	6.266	-16.830	66.900	1.00	19.14
ATOM	15694	CB	LEU	2334	5.497	-15.530	66.889	1.00	28.12
ATOM	15695	CG	LEU	2334	4.337	-15.483	66.130	1.00	13.15
ATOM	15696	CD1	LEU	2334	3.883	-14.132	66.375	1.00	14.35
ATOM	15697	CD2	LEU	2334	3.363	-24.997	66.264	1.00	25.02
ATOM	15698	C	LEU	2334	5.548	-12.485	66.771	1.00	31.07
ATOM	15699	O	LEU	2334	4.160	-12.137	66.757	1.00	32.09
ATOM	15700	N	ALA	2335	5.638	-22.673	66.177	1.00	35.05
ATOM	15701	CA	ALA	2335	5.390	-23.877	66.664	1.00	36.84
ATOM	15702	CB	ALA	2335	5.736	-11.921	66.916	1.00	38.32
ATOM	15703	C	ALA	2335	5.493	-30.162	70.130	1.00	41.82
ATOM	15704	O	ALA	2335	4.846	-30.605	70.450	1.00	42.61
ATOM	15705	N	GLU	2336	6.333	-13.597	71.414	1.00	35.17
ATOM	15706	CA	GLU	2336	7.171	-20.131	71.761	1.00	44.42
ATOM	15707	CB	GLU	2336	8.790	-29.899	71.741	1.00	59.16
ATOM	15708	CG	GLU	2336	9.831	-30.908	71.336	1.00	52.70
ATOM	15709	CD	GLU	2336	9.781	-33.146	71.667	1.00	53.56
ATOM	15710	OE1	GLU	2336	8.701	-32.321	72.005	1.00	54.49
ATOM	15711	OE2	GLU	2336	10.888	-33.835	71.997	1.00	54.14
ATOM	15712	C	GLU	2336	6.633	-29.139	72.739	1.00	44.87
ATOM	15713	O	GLU	2336	6.899	-29.184	73.941	1.00	49.41
ATOM	15714	N	THR	2337	5.816	-16.838	72.311	1.00	46.87
ATOM	15715	CA	THR	2337	5.171	-17.329	73.925	1.00	48.35
ATOM	15716	CB	THR	2337	6.034	-15.946	73.137	1.00	59.87
ATOM	15717	OG1	THR	2337	5.387	-14.933	74.005	1.00	52.34
ATOM	15718	OG2	THR	2337	6.283	-15.313	71.764	1.00	51.33
ATOM	15719	C	THR	2337	3.781	-16.853	72.421	1.00	44.80
ATOM	15720	O	THR	2337	3.119	-17.676	71.765	1.00	43.84
ATOM	15721	N	GLY	2338	3.336	-15.913	72.851	1.00	47.83
ATOM	15722	CA	GLY	2338	3.001	-15.173	72.114	1.00	47.11
ATOM	15723	C	GLY	2338	3.135	-13.733	71.689	1.00	43.32
ATOM	15724	O	GLY	2338	1.117	-13.163	71.243	1.00	43.86
ATOM	15725	N	ASP	2339	3.317	-13.131	71.795	1.00	43.31
ATOM	15726	CA	ASP	2339	3.513	-21.739	71.426	1.00	34.35
ATOM	15727	CB	ASP	2339	3.672	-20.835	72.699	1.00	41.39
ATOM	15728	CG	ASP	2339	3.966	-19.444	72.401	1.00	43.35
ATOM	15729	OD1	ASP	2339	3.137	-19.121	72.115	1.00	42.97
ATOM	15730	OD2	ASP	2339	3.018	-18.624	72.448	1.00	45.36
ATOM	15731	C	ASP	2339	4.743	-21.533	70.535	1.00	35.60
ATOM	15732	O	ASP	2339	5.797	-22.194	70.809	1.00	33.62
ATOM	15733	N	ILE	2340	4.613	-20.819	69.474	1.00	32.17
ATOM	15734	CA	ILE	2340	5.722	-20.606	68.540	1.00	29.10
ATOM	15735	CB	ILE	2340	5.968	-19.753	67.343	1.00	28.53
ATOM	15736	CG	ILE	2340	5.337	-19.496	66.400	1.00	26.40

ATOM	15737	CG1	ILE	2340	4.143	-20.477	66.587	1.00	27.31
ATOM	15738	CD1	ILE	2340	3.507	-13.652	65.474	1.00	27.21
ATOM	15739	C	ILE	2340	6.930	-13.945	69.202	1.00	27.86
ATOM	15740	O	ILE	2340	8.064	-29.405	69.045	1.00	27.30
ATOM	15741	N	AFG	2341	6.692	-18.867	69.942	1.00	25.33
ATOM	15742	CA	AFG	2341	7.786	-18.180	70.611	1.00	24.57
ATOM	15743	CB	AFG	2341	7.268	-16.927	71.223	1.00	23.55
ATOM	15744	CG	AFG	2341	6.902	-13.805	70.349	1.00	24.36
ATOM	15745	CD	AFG	2341	6.378	-14.561	71.051	1.00	27.22
ATOM	15746	NE	AFG	2341	6.060	-13.501	70.391	1.00	27.15
ATOM	15747	CZ	AFG	2341	5.076	-13.575	69.200	1.00	28.26
ATOM	15748	NH1	AFG	2341	4.308	-14.051	69.149	1.00	26.90
ATOM	15749	NH2	AFG	2341	4.871	-12.978	68.754	1.00	27.62
ATOM	15750	C	AFG	2341	8.499	-13.216	71.224	1.00	24.05
ATOM	15751	O	AFG	2341	9.713	-13.086	71.753	1.00	23.07
ATOM	15752	N	ALA	2342	7.742	-23.019	72.102	1.00	23.18
ATOM	15753	CA	ALA	2342	8.307	-20.982	73.138	1.00	24.94
ATOM	15754	CB	ALA	2342	7.194	-11.718	73.838	1.00	24.89
ATOM	15755	C	ALA	2342	9.179	-21.995	72.267	1.00	24.76
ATOM	15756	O	ALA	2342	10.234	-11.343	72.265	1.00	25.19
ATOM	15757	N	ALA	2343	8.725	-11.222	71.135	1.00	22.90
ATOM	15758	CA	ALA	2343	9.481	-11.210	70.221	1.00	21.70
ATOM	15759	CB	ALA	2343	8.648	-11.281	69.249	1.00	22.10
ATOM	15760	C	ALA	2343	10.810	-11.274	69.269	1.00	20.71
ATOM	15761	O	ALA	2343	11.840	-11.246	69.240	1.00	19.96
ATOM	15762	N	VAL	2344	10.774	-11.175	69.334	1.00	20.15
ATOM	15763	CA	VAL	2344	11.264	-10.110	69.265	1.00	20.13
ATOM	15764	CB	VAL	2344	11.612	-11.000	68.219	1.00	19.26
ATOM	15765	CG1	VAL	2344	12.883	-11.263	68.209	1.00	21.02
ATOM	15766	CG2	VAL	2344	12.071	-11.007	67.264	1.00	21.23
ATOM	15767	C	VAL	2344	12.323	-10.008	70.247	1.00	20.91
ATOM	15768	O	VAL	2344	14.186	-10.265	70.115	1.00	18.15
ATOM	15769	N	ARG	2345	12.584	-20.267	71.522	1.00	21.37
ATOM	15770	CA	ARG	2345	13.410	-10.234	72.221	1.00	19.97
ATOM	15771	CB	ARG	2345	12.684	-10.818	72.068	1.00	18.17
ATOM	15772	CG	ARG	2345	12.187	-10.413	72.221	1.00	24.76
ATOM	15773	CD	ARG	2345	11.767	-10.800	72.260	1.00	21.92
ATOM	15774	NE	ARG	2345	10.763	-10.213	72.221	1.00	27.37
ATOM	15775	CZ	ARG	2345	9.465	-10.411	72.247	1.00	28.92
ATOM	15776	NH1	ARG	2345	9.127	-10.206	74.224	1.00	18.97
ATOM	15777	NH2	ARG	2345	8.604	-10.417	74.218	1.00	20.22
ATOM	15778	C	ARG	2345	13.366	-11.242	72.024	1.00	18.12
ATOM	15779	O	ARG	2345	15.135	-11.339	72.227	1.00	16.08
ATOM	15780	N	GLN	2346	13.179	-11.778	72.221	1.00	24.82
ATOM	15781	CA	GLN	2346	13.649	-11.147	72.280	1.00	25.54
ATOM	15782	CB	GLN	2346	12.506	-11.100	72.225	1.00	27.08
ATOM	15783	CG	GLN	2346	12.882	-10.909	72.227	1.00	32.29
ATOM	15784	CD	GLN	2346	11.700	-11.544	72.226	1.00	30.43
ATOM	15785	OE1	GLN	2346	10.589	-11.269	72.229	1.00	28.83
ATOM	15786	NE2	GLN	2346	12.242	-11.746	72.248	1.00	26.41
ATOM	15787	C	GLN	2346	14.753	-11.403	72.224	1.00	25.43
ATOM	15788	O	GLN	2346	15.747	-11.204	72.229	1.00	24.79
ATOM	15789	N	TYR	2347	14.521	-21.008	70.228	1.00	24.34
ATOM	15790	CA	TYR	2347	15.556	-24.240	69.633	1.00	24.09
ATOM	15791	CB	TYR	2347	15.013	-23.659	68.228	1.00	24.72
ATOM	15792	CG	TYR	2347	16.047	-23.560	67.229	1.00	24.42
ATOM	15793	CH1	TYR	2347	16.883	-21.666	66.228	1.00	24.35
ATOM	15794	CH2	TYR	2347	17.814	-21.500	65.228	1.00	23.82
ATOM	15795	CH3	TYR	2347	16.248	-21.338	65.223	1.00	23.75
ATOM	15796	CR1	TYR	2347	17.121	-21.230	65.224	1.00	21.65
ATOM	15797	CR2	TYR	2347	17.952	-21.447	65.224	1.00	21.22
ATOM	15798	OH	TYR	2347	16.864	-21.316	65.225	1.00	21.29
ATOM	15799	C	TYR	2348	16.822	-21.509	70.222	1.00	21.13
ATOM	15800	O	TYR	2348	17.933	-21.125	69.222	1.00	23.75
ATOM	15801	N	MET	2349	16.744	-21.320	70.221	1.00	24.26
ATOM	15802	CA	MET	2349	17.946	-21.575	70.227	1.00	25.61
ATOM	15803	CB	MET	2349	17.636	-20.179	71.225	1.00	26.13
ATOM	15804	CG	MET	2349	17.038	-19.273	70.223	1.00	26.96
ATOM	15805	CH	MET	2349	16.246	-17.311	70.228	1.00	30.86
ATOM	15806	CR	MET	2349	17.510	-17.070	71.221	1.00	28.64
ATOM	15807	C	MET	2349	18.718	-22.325	71.220	1.00	25.32
ATOM	15808	O	MET	2349	19.973	-22.437	71.244	1.00	24.27
ATOM	15809	N	ALA	2349	17.943	-22.782	72.223	1.00	25.63
ATOM	15810	CA	ALA	2349	18.516	-23.490	74.221	1.00	26.87
ATOM	15811	CB	ALA	2349	17.452	-23.694	75.225	1.00	26.84
ATOM	15812	C	ALA	2349	19.189	-24.632	73.224	1.00	27.52
ATOM	15813	O	ALA	2349	20.425	-25.694	74.224	1.00	28.20

ATCM	15814	N	GLU	2350	18.461	-25.681	73.065	1.00	27.55
ATCM	15815	CA	GLU	2350	18.982	-26.498	72.715	1.00	28.05
ATCM	15816	CB	GLU	2350	17.908	-27.852	72.070	1.00	27.67
ATCM	15817	CG	GLU	2350	16.646	-28.041	72.838	1.00	30.81
ATCM	15818	CD	GLU	2350	15.872	-29.206	71.321	1.00	30.48
ATCM	15819	CE1	GLU	2350	15.869	-29.425	71.108	1.00	32.21
ATCM	15820	CE2	GLU	2350	15.114	-29.849	73.138	1.00	33.22
ATCM	15821	C	GLU	2350	20.282	-26.937	71.844	1.00	28.06
ATCM	15822	C	GLU	2350	21.658	-27.849	71.877	1.00	26.63
ATCM	15823	N	VAL	2350	20.375	-26.873	71.069	1.00	28.58
ATCM	15824	CA	VAL	2351	21.549	-25.742	70.519	1.00	28.48
ATCM	15825	CB	VAL	2351	21.364	-24.605	69.161	1.00	29.53
ATCM	15826	CE1	VAL	2351	22.678	-24.341	68.438	1.00	28.86
ATCM	15827	CE2	VAL	2351	20.291	-25.003	68.161	1.00	26.63
ATCM	15828	C	VAL	2351	22.781	-25.466	71.091	1.00	30.61
ATCM	15829	C	VAL	2351	22.787	-26.061	71.000	1.00	29.23
ATCM	15830	N	GLU	2352	22.177	-24.804	71.451	1.00	31.03
ATCM	15831	CA	GLU	2352	22.036	-23.907	71.841	1.00	30.16
ATCM	15832	CB	GLU	2352	22.141	-22.706	71.681	1.00	34.00
ATCM	15833	CG	GLU	2352	24.778	-22.256	74.511	1.00	38.30
ATCM	15834	CD	GLU	2352	23.903	-21.011	75.828	1.00	40.42
ATCM	15835	CE1	GLU	2352	24.747	-20.441	76.109	1.00	41.56
ATCM	15836	CE2	GLU	2352	22.765	-20.531	75.159	1.00	42.53
ATCM	15837	C	GLU	2352	24.138	-20.127	75.589	1.00	44.58
ATCM	15838	C	GLU	2352	22.186	-21.166	74.090	1.00	34.72
ATCM	15839	N	SER	2352	22.118	-20.903	74.166	1.00	33.54
ATCM	15840	CA	SER	2352	23.478	-19.081	75.051	1.00	34.32
ATCM	15841	CB	SER	2352	22.166	-18.748	75.818	1.00	35.34
ATCM	15842	CG	SER	2353	21.777	-18.429	76.653	1.00	42.27
ATCM	15843	C	SER	2353	21.971	-18.148	76.399	1.00	34.32
ATCM	15844	C	SER	2353	24.568	-18.189	74.889	1.00	31.68
ATCM	15845	N	GLY	2354	21.777	-18.148	76.399	1.00	31.68
ATCM	15846	CA	GLY	2354	21.152	-17.468	75.137	1.00	31.21
ATCM	15847	C	GLY	2354	23.068	-17.411	75.779	1.00	30.93
ATCM	15848	C	GLY	2354	23.151	-17.147	75.373	1.00	31.34
ATCM	15849	N	VAL	2354	21.411	-16.901	75.347	1.00	29.15
ATCM	15850	CA	VAL	2354	20.844	-16.778	75.773	1.00	29.20
ATCM	15851	CB	VAL	2354	23.617	-16.218	75.347	1.00	29.10
ATCM	15852	CE1	VAL	2354	23.464	-15.775	75.819	1.00	29.45
ATCM	15853	CE2	VAL	2354	20.977	-16.482	74.376	1.00	32.59
ATCM	15854	C	VAL	2355	20.836	-15.413	75.161	1.00	37.65
ATCM	15855	C	VAL	2355	19.411	-15.499	76.863	1.00	36.05
ATCM	15856	N	TYR	2356	20.899	-16.338	75.148	1.00	28.08
ATCM	15857	CA	TYR	2356	19.237	-20.451	69.099	1.00	26.36
ATCM	15858	CB	TYR	2356	18.113	-20.543	68.883	1.00	25.86
ATCM	15859	CG	TYR	2356	18.299	-20.407	67.436	1.00	25.65
ATCM	15860	CD	TYR	2356	17.738	-20.160	66.817	1.00	25.65
ATCM	15861	CE1	TYR	2356	17.438	-20.496	67.493	1.00	25.60
ATCM	15862	CE2	TYR	2356	18.568	-20.568	66.653	1.00	24.57
ATCM	15863	CE2	TYR	2356	18.271	-20.348	65.293	1.00	24.48
ATCM	15864	CE2	TYR	2356	17.708	-20.466	64.873	1.00	25.02
ATCM	15865	OH	TYR	2356	17.423	-20.471	63.381	1.00	25.86
ATCM	15866	C	TYR	2356	21.809	-20.749	68.213	1.00	27.93
ATCM	15867	C	TYR	2356	21.644	-20.608	67.890	1.00	26.04
ATCM	15868	N	PRO	2357	21.438	-20.408	67.131	1.00	29.12
ATCM	15869	CD	PRO	2357	22.849	-20.867	65.081	1.00	29.21
ATCM	15870	CA	PRO	2357	20.817	-21.859	66.603	1.00	30.27
ATCM	15871	CB	PRO	2357	21.151	-21.671	65.182	1.00	30.86
ATCM	15872	CG	PRO	2357	22.444	-21.033	65.143	1.00	30.26
ATCM	15873	C	PRO	2357	21.341	-21.435	67.387	1.00	32.19
ATCM	15874	C	PRO	2357	22.348	-21.244	67.801	1.00	31.73
ATCM	15875	N	GLY	2358	20.166	-21.879	67.565	1.00	33.64
ATCM	15876	CA	GLY	2358	20.813	-21.093	68.126	1.00	35.89
ATCM	15877	C	GLY	2358	21.721	-20.113	67.131	1.00	36.96
ATCM	15878	C	GLY	2358	21.788	-20.816	66.919	1.00	34.73
ATCM	15879	N	GLU	2359	21.651	-21.313	67.883	1.00	38.39
ATCM	15880	CA	GLU	2359	22.111	-20.369	66.795	1.00	40.49
ATCM	15881	CB	GLU	2359	22.707	-19.612	67.558	1.00	42.44
ATCM	15882	CG	GLU	2359	22.814	-20.830	66.713	1.00	45.21
ATCM	15883	CD	GLU	2359	23.478	-19.805	65.788	1.00	46.88
ATCM	15884	CE1	GLU	2359	24.082	-21.352	64.786	1.00	47.42
ATCM	15885	CE2	GLU	2359	24.792	-21.691	65.045	1.00	48.14
ATCM	15886	C	GLU	2359	21.031	-20.731	65.765	1.00	41.67
ATCM	15887	C	GLU	2359	21.828	-21.164	64.699	1.00	42.53
ATCM	15888	N	GLU	2360	19.773	-21.548	66.180	1.00	40.84
ATCM	15889	CA	GLU	2360	19.847	-21.862	65.381	1.00	42.11
ATCM	15890	CB	GLU	2360	17.311	-22.762	66.068	1.00	43.54

ATOM	15891	CG	GLU	2360	17.420	-39.113	67.543	1.00	47.07
ATOM	15892	CD	GLU	2360	17.895	-37.944	68.389	1.00	48.49
ATOM	15893	OE1	GLU	2360	17.123	-36.972	68.547	1.00	48.54
ATOM	15894	OE2	GLU	2360	19.640	-37.993	68.89	1.00	49.09
ATOM	15895	C	GLU	2360	18.600	-37.922	64.189	1.00	49.20
ATOM	15896	O	GLU	2360	18.018	-38.131	63.03	1.00	49.08
ATOM	15897	N	HIS	2361	13.124	-36.748	64.761	1.00	33.76
ATOM	15898	CA	HIS	2361	13.126	-36.735	63.71	1.00	33.83
ATOM	15899	CB	HIS	2361	13.895	-34.368	63.839	1.00	37.42
ATOM	15900	CG	HIS	2361	17.711	-34.382	64.727	1.00	37.85
ATOM	15901	CD2	HIS	2361	17.616	-34.163	66.063	1.00	37.85
ATOM	15902	ND1	HIS	2361	16.436	-34.685	64.238	1.00	37.39
ATOM	15903	CE1	HIS	2361	15.603	-34.644	65.331	1.00	37.41
ATOM	15904	NE2	HIS	2361	16.797	-34.379	66.496	1.00	37.44
ATOM	15905	C	HIS	2361	23.588	-35.639	63.514	1.00	37.16
ATOM	15906	O	HIS	2361	21.815	-34.739	61.714	1.00	33.47
ATOM	15907	N	SER	2362	21.479	-36.589	61.87	1.00	37.15
ATOM	15908	CA	SER	2362	21.814	-36.591	62.131	1.00	37.47
ATOM	15909	CB	SER	2362	23.845	-36.519	62.276	1.00	37.34
ATOM	15910	CG	SER	2362	23.347	-35.345	64.134	1.00	38.89
ATOM	15911	C	SER	2362	23.037	-35.723	61.13	1.00	33.28
ATOM	15912	O	SER	2362	22.131	-34.831	61.12	1.00	33.39
ATOM	15913	N	PRO	2363	23.936	-37.579	62.363	1.00	38.60
ATOM	15914	CA	PRO	2363	24.331	-35.617	63.479	1.00	39.17
ATOM	15915	CB	PRO	2363	24.337	-35.313	62.383	1.00	39.10
ATOM	15916	CG	PRO	2363	21.831	-35.134	62.813	1.00	39.62
ATOM	15917	CD1	PRO	2363	23.689	-36.168	62.337	1.00	40.24
ATOM	15918	CD2	PRO	2363	21.863	-36.138	62.383	1.00	39.34
ATOM	15919	CE1	PRO	2363	21.433	-35.998	62.137	1.00	41.02
ATOM	15920	CE2	PRO	2363	23.640	-37.369	62.33	1.00	40.32
ATOM	15921	C2	PRO	2363	23.339	-36.479	62.334	1.00	40.17
ATOM	15922	C	PRO	2363	25.396	-39.589	62.713	1.00	40.49
ATOM	15923	O	PRO	2363	26.733	-38.428	63.443	1.00	39.62
ATOM	15924	N	HIS	2364	26.139	-40.114	62.13	1.00	41.96
ATOM	15925	CA	HIS	2364	27.462	-40.331	62.336	1.00	44.52
ATOM	15926	CB	HIS	2364	27.438	-41.343	62.333	1.00	44.37
ATOM	15927	CC	HIS	2364	27.333	-41.903	62.33	1.00	44.87
ATOM	15928	CD2	HIS	2364	26.130	-41.333	62.333	1.00	45.16
ATOM	15929	ND1	HIS	2364	28.130	-40.333	62.333	1.00	45.32
ATOM	15930	CE1	HIS	2364	27.336	-39.713	62.331	1.00	45.82
ATOM	15931	NE2	HIS	2364	26.718	-40.341	62.336	1.00	45.37
ATOM	15932	C	HIS	2364	27.935	-41.537	62.332	1.00	45.86
ATOM	15933	O	HIS	2364	29.117	-41.335	62.332	1.00	47.15
ATOM	15934	OXT	HIS	2364	27.133	-42.331	62.314	1.00	48.19
ATOM	15935	C1	KPL	2365	18.363	-34.454	64.334	1.00	39.39
ATOM	15936	C2	KPL	2365	19.445	-23.498	64.694	1.00	40.45
ATOM	15937	C3	KPL	2365	19.314	-22.439	63.256	1.00	40.35
ATOM	15938	C4	KPL	2365	20.733	-24.331	61.385	1.00	41.68
ATOM	15939	O1	KPL	2365	20.736	-25.331	62.317	1.00	44.61
ATOM	15940	C5	KPL	2365	19.361	-22.340	62.363	1.00	39.00
ATOM	15941	O2	KPL	2365	20.131	-22.334	61.899	1.00	40.74
ATOM	15942	O3	KPL	2365	18.364	-21.333	62.331	1.00	37.37
ATOM	15943	O4	KPL	2365	17.333	-21.335	62.333	1.00	37.05
ATOM	15944	O4	KPL	2365	17.333	-21.335	62.333	1.00	32.80
ATOM	15945	CB	MET	2401	40.336	32.331	43.333	1.00	31.31
ATOM	15946	CG	MET	2401	41.333	32.333	43.333	1.00	32.39
ATOM	15947	SD	MET	2401	42.334	33.330	43.334	1.00	33.39
ATOM	15948	CE	MET	2401	40.337	34.330	43.333	1.00	33.39
ATOM	15949	C	MET	2401	33.337	31.335	43.335	1.00	34.44
ATOM	15950	O	MET	2401	37.336	31.330	43.335	1.00	33.31
ATOM	15951	N	MET	2401	43.333	32.332	43.339	1.00	33.33
ATOM	15952	CA	MET	2401	33.331	31.339	43.334	1.00	33.33
ATOM	15953	N	LYS	2402	33.331	31.331	43.331	1.00	37.33
ATOM	15954	CA	LYS	2402	37.339	31.337	43.337	1.00	35.37
ATOM	15955	CB	LYS	2402	37.339	33.334	43.333	1.00	35.31
ATOM	15956	CG	LYS	2402	36.333	33.335	43.338	1.00	37.33
ATOM	15957	CD	LYS	2402	35.331	33.332	43.333	1.00	38.39
ATOM	15958	CE	LYS	2402	34.331	34.222	43.330	1.00	39.72
ATOM	15959	NE3	LYS	2402	33.336	34.024	43.339	1.00	40.37
ATOM	15960	C	LYS	2402	37.331	33.031	43.335	1.00	32.73
ATOM	15961	O	LYS	2402	33.258	31.636	43.335	1.00	33.72
ATOM	15962	N	PRO	2403	37.454	29.735	39.333	1.00	39.41
ATOM	15963	CD	PRO	2403	37.320	29.060	38.334	1.00	38.79
ATOM	15964	CA	PRO	2403	36.895	28.834	40.335	1.00	35.82
ATOM	15965	CB	PRO	2403	36.681	27.948	40.334	1.00	37.33
ATOM	15966	CG	PRO	2403	36.267	27.631	38.332	1.00	38.33
ATOM	15967	C	PRO	2403	37.987	28.132	41.337	1.00	32.34

ATOM	15968	O	PPO	2403	39.149	28.127	41.170	1.00	51.69
ATOM	15969	N	THF	2404	37.605	27.465	42.667	1.00	47.66
ATOM	15970	CA	THF	2404	38.550	26.690	43.463	1.00	43.63
ATOM	15971	CB	THF	2404	37.921	26.341	44.846	1.00	43.73
ATOM	15972	CG1	THF	2404	37.739	27.544	45.588	1.00	43.30
ATOM	15973	CG2	THF	2404	38.935	25.452	45.617	1.00	42.68
ATOM	15974	O	THF	2404	38.817	25.395	42.740	1.00	41.58
ATOM	15975	O	THF	2404	38.007	24.741	42.178	1.00	38.80
ATOM	15976	N	THF	2405	40.163	29.103	42.762	1.00	40.92
ATOM	15977	CA	THF	2405	40.617	28.803	42.101	1.00	40.32
ATOM	15978	CB	THF	2405	41.289	24.317	40.213	1.00	40.36
ATOM	15979	CG1	THF	2405	42.476	24.996	40.954	1.00	40.01
ATOM	15980	CG2	THF	2405	40.817	24.849	39.832	1.00	38.67
ATOM	15981	O	THF	2405	41.607	23.010	42.954	1.00	40.56
ATOM	15982	O	THF	2405	42.106	23.114	43.636	1.00	29.81
ATOM	15983	N	ILE	2406	41.882	21.790	42.521	1.00	40.92
ATOM	15984	CA	ILE	2406	42.815	20.909	43.118	1.00	41.25
ATOM	15985	CB	ILE	2406	43.063	19.613	42.814	1.00	41.47
ATOM	15986	CG2	ILE	2406	43.877	18.600	43.254	1.00	39.98
ATOM	15987	CG1	ILE	2406	41.755	19.036	41.949	1.00	42.65
ATOM	15988	CD1	ILE	2406	41.855	18.077	43.283	1.00	44.77
ATOM	15989	O	ILE	2406	44.154	21.674	43.413	1.00	41.31
ATOM	15990	O	ILE	2406	44.771	21.514	44.312	1.00	40.10
ATOM	15991	N	SER	2407	44.189	22.337	42.747	1.00	41.82
ATOM	15992	CA	SER	2407	44.864	23.043	42.342	1.00	41.16
ATOM	15993	CB	SER	2407	46.041	22.821	41.175	1.00	42.75
ATOM	15994	CG	SER	2407	46.177	23.076	40.806	1.00	41.09
ATOM	15995	O	SER	2407	45.074	22.912	43.659	1.00	41.86
ATOM	15996	O	SER	2407	47.177	24.179	44.117	1.00	41.04
ATOM	15997	N	LEU	2408	44.846	23.335	44.411	1.00	41.22
ATOM	15998	CA	LEU	2408	44.878	23.574	45.157	1.00	40.41
ATOM	15999	CB	LEU	2408	45.487	23.601	45.740	1.00	41.71
ATOM	16000	CG	LEU	2408	45.121	23.538	45.753	1.00	42.81
ATOM	16001	CD1	LEU	2408	45.111	23.621	46.050	1.00	42.95
ATOM	16002	CD2	LEU	2408	46.149	22.789	46.877	1.00	41.29
ATOM	16003	O	LEU	2408	45.116	24.580	46.753	1.00	39.32
ATOM	16004	O	LEU	2408	45.821	23.604	47.171	1.00	38.69
ATOM	16005	N	LEU	2409	44.478	23.348	46.048	1.00	38.01
ATOM	16006	CA	LEU	2409	44.628	23.771	47.356	1.00	37.10
ATOM	16007	CB	LEU	2409	45.040	21.848	47.158	1.00	36.29
ATOM	16008	CG	LEU	2409	45.135	21.839	47.772	1.00	37.24
ATOM	16009	CD1	LEU	2409	45.507	20.164	47.750	1.00	36.39
ATOM	16010	CD2	LEU	2409	45.859	21.569	49.054	1.00	36.07
ATOM	16011	O	LEU	2409	46.103	21.113	47.956	1.00	35.48
ATOM	16012	O	LEU	2409	46.654	22.637	49.055	1.00	37.24
ATOM	16013	N	GLN	2410	46.111	21.893	46.835	1.00	37.93
ATOM	16014	CA	GLN	2410	46.096	21.956	46.759	1.00	37.41
ATOM	16015	CB	GLN	2410	46.477	20.983	45.846	1.00	36.61
ATOM	16016	CG	GLN	2410	46.614	20.931	45.716	1.00	35.36
ATOM	16017	CD	GLN	2410	46.374	19.941	45.693	1.00	41.42
ATOM	16018	OE1	GLN	2410	51.733	19.054	47.138	1.00	42.18
ATOM	16019	NE2	GLN	2410	46.732	18.912	45.614	1.00	35.41
ATOM	16020	O	GLN	2410	46.286	22.477	47.769	1.00	35.19
ATOM	16021	O	GLN	2410	46.507	21.233	48.157	1.00	35.75
ATOM	16022	N	LYS	2411	46.676	23.701	48.538	1.00	35.25
ATOM	16023	CA	LYS	2411	46.431	24.866	47.134	1.00	38.59
ATOM	16024	CB	LYS	2411	46.787	26.114	48.632	1.00	40.48
ATOM	16025	CG	LYS	2411	46.161	25.410	47.114	1.00	41.48
ATOM	16026	CD	LYS	2411	46.792	26.633	48.684	1.00	46.76
ATOM	16027	CE	LYS	2411	46.179	26.912	47.132	1.00	43.93
ATOM	16028	NE	LYS	2411	46.666	26.135	48.157	1.00	35.19
ATOM	16029	O	LYS	2411	46.813	25.018	48.139	1.00	37.82
ATOM	16030	O	LYS	2411	50.156	25.254	48.133	1.00	36.96
ATOM	16031	N	TYR	2412	44.094	24.816	49.346	1.00	35.70
ATOM	16032	CA	TYR	2412	45.839	24.953	50.779	1.00	36.63
ATOM	16033	CB	TYR	2412	46.364	24.667	51.075	1.00	33.12
ATOM	16034	CG	TYR	2412	46.409	25.792	50.731	1.00	33.60
ATOM	16035	CD1	TYR	2412	45.029	25.573	50.725	1.00	31.45
ATOM	16036	CE1	TYR	2412	46.137	26.613	50.450	1.00	32.37
ATOM	16037	CD2	TYR	2412	46.877	27.075	50.444	1.00	30.61
ATOM	16038	CE2	TYR	2412	44.625	28.117	50.185	1.00	31.94
ATOM	16039	CE	TYR	2412	43.626	27.809	50.117	1.00	32.93
ATOM	16040	CH	TYR	2412	42.746	28.905	49.902	1.00	35.55
ATOM	16041	O	TYR	2412	44.723	24.929	51.587	1.00	33.83
ATOM	16042	O	TYR	2412	44.164	24.408	52.631	1.00	32.54
ATOM	16043	N	ASN	2413	44.894	23.787	51.115	1.00	32.53
ATOM	16044	CA	ASN	2413	46.111	24.925	52.683	1.00	34.17

ATOM	16045	CB	LYS	2413	49.617	20.437	51.197	1.00	32.95
ATOM	16046	CG	LYS	2413	50.518	19.412	51.871	1.00	31.62
ATOM	16047	CD	LYS	2413	50.181	17.335	51.485	1.00	30.68
ATOM	16048	CE	LYS	2413	51.017	16.446	52.035	1.00	19.20
ATOM	16049	NZ	LYS	2413	50.517	17.696	52.132	1.00	18.10
ATOM	16050	C	LYS	2413	51.187	21.286	51.848	1.00	34.90
ATOM	16051	O	LYS	2413	51.864	21.101	52.848	1.00	33.50
ATOM	16052	N	GLN	2414	51.629	21.815	50.730	1.00	37.18
ATOM	16053	CA	GLN	2414	52.006	23.282	50.631	1.00	46.24
ATOM	16054	CB	GLN	2414	52.301	23.245	49.187	1.00	42.05
ATOM	16055	CG	GLN	2414	52.429	21.605	48.210	1.00	47.04
ATOM	16056	CD	GLN	2414	52.599	23.049	46.784	1.00	49.67
ATOM	16057	OE1	GLN	2414	54.746	24.042	46.518	1.00	51.22
ATOM	16058	NE2	GLN	2414	52.897	21.187	45.850	1.00	49.27
ATOM	16059	C	GLU	2414	52.218	24.415	51.809	1.00	41.11
ATOM	16060	O	GLU	2414	54.186	24.844	52.117	1.00	41.34
ATOM	16061	N	GLU	2414	52.147	21.815	51.704	1.00	41.06
ATOM	16062	CA	GLU	2414	52.318	23.444	52.009	1.00	42.11
ATOM	16063	CB	GLU	2414	52.589	22.816	52.188	1.00	43.73
ATOM	16064	CG	GLU	2414	51.429	22.816	50.734	1.00	46.12
ATOM	16065	CD	GLU	2414	50.681	23.212	50.404	1.00	47.48
ATOM	16066	OE1	GLU	2414	49.401	23.210	50.164	1.00	48.81
ATOM	16067	OE2	GLU	2414	53.201	30.112	49.878	1.00	49.09
ATOM	16068	C	GLU	2414	52.611	26.110	54.024	1.00	41.88
ATOM	16069	O	GLU	2414	52.100	26.810	54.264	1.00	41.73
ATOM	16070	N	LYS	2415	52.721	33.216	54.194	1.00	40.13
ATOM	16071	CA	LYS	2415	53.487	34.245	55.426	1.00	46.01
ATOM	16072	CB	LYS	2415	52.607	31.335	56.138	1.00	41.70
ATOM	16073	CG	LYS	2415	52.969	34.112	55.811	1.00	45.11
ATOM	16074	CD	LYS	2415	54.699	31.889	55.416	1.00	47.99
ATOM	16075	CE	LYS	2415	55.781	31.110	54.418	1.00	49.09
ATOM	16076	NZ	LYS	2415	56.786	31.832	55.114	1.00	50.44
ATOM	16077	C	LYS	2415	56.177	34.284	56.127	1.00	48.84
ATOM	16078	O	LYS	2415	56.617	34.810	57.118	1.00	58.69
ATOM	16079	N	LYS	2415	49.126	33.266	55.118	1.00	46.93
ATOM	16080	CA	LYS	2415	48.107	31.812	55.844	1.00	44.78
ATOM	16081	CB	LYS	2415	47.687	32.861	54.717	1.00	45.18
ATOM	16082	CG	LYS	2415	46.418	31.812	55.118	1.00	46.93
ATOM	16083	CD	LYS	2415	48.943	31.812	54.118	1.00	46.18
ATOM	16084	CE	LYS	2415	46.997	30.638	53.820	1.00	41.87
ATOM	16085	NZ	LYS	2415	46.117	31.812	52.788	1.00	42.11
ATOM	16086	C	LYS	2415	46.917	34.812	55.641	1.00	53.03
ATOM	16087	O	LYS	2415	46.512	34.818	54.184	1.00	51.46
ATOM	16088	N	ARG	2415	46.414	34.812	56.121	1.00	51.81
ATOM	16089	CA	ARG	2415	45.820	33.815	56.968	1.00	29.29
ATOM	16090	CB	ARG	2415	45.138	33.181	58.418	1.00	30.17
ATOM	16091	CG	ARG	2415	46.864	32.213	58.847	1.00	51.76
ATOM	16092	CD	ARG	2415	46.446	31.210	60.335	1.00	53.11
ATOM	16093	NE	ARG	2415	46.849	33.244	60.811	1.00	54.67
ATOM	16094	CZ	ARG	2415	47.516	34.446	62.122	1.00	34.59
ATOM	16095	NH1	ARG	2415	47.633	32.831	62.844	1.00	35.64
ATOM	16096	NH2	ARG	2415	47.838	34.613	62.556	1.00	53.41
ATOM	16097	C	ARG	2415	44.011	24.135	56.156	1.00	18.42
ATOM	16098	O	ARG	2415	43.638	23.810	56.581	1.00	18.67
ATOM	16099	N	PHE	2419	43.318	23.444	55.603	1.00	17.53
ATOM	16100	CA	PHE	2419	43.065	23.615	55.805	1.00	14.18
ATOM	16101	CB	PHE	2419	42.188	21.818	53.418	1.00	15.14
ATOM	16102	CG	PHE	2419	42.501	21.219	52.617	1.00	27.81
ATOM	16103	CD	PHE	2419	41.332	21.650	52.560	1.00	27.73
ATOM	16104	CDE	PHE	2419	41.031	21.100	52.342	1.00	17.46
ATOM	16105	CE1	PHE	2419	41.748	21.812	52.136	1.00	16.05
ATOM	16106	CE2	PHE	2419	41.103	23.636	52.118	1.00	16.62
ATOM	16107	CZ	PHE	2419	41.070	19.978	51.464	1.00	17.50
ATOM	16108	C	THR	2419	40.837	23.111	55.439	1.00	22.88
ATOM	16109	O	THR	2419	40.933	21.921	55.734	1.00	19.16
ATOM	16110	N	ALA	2420	33.684	23.563	55.476	1.00	21.34
ATOM	16111	CA	ALA	2420	33.456	23.800	55.372	1.00	22.77
ATOM	16112	CB	ALA	2420	32.617	23.927	56.757	1.00	21.44
ATOM	16113	C	ALA	2420	32.640	23.554	54.679	1.00	22.17
ATOM	16114	O	ALA	2420	32.611	23.332	53.626	1.00	22.74
ATOM	16115	N	THR	2421	36.977	21.512	54.802	1.00	22.82
ATOM	16116	CA	THR	2421	36.138	20.942	53.750	1.00	22.02
ATOM	16117	CB	THR	2421	36.814	19.711	53.110	1.00	24.06
ATOM	16118	CG1	THR	2421	36.061	20.168	52.514	1.00	26.61
ATOM	16119	CG2	THR	2421	35.923	19.109	52.048	1.00	27.64
ATOM	16120	C	THR	2421	34.836	20.509	54.419	1.00	28.93
ATOM	16121	O	THR	2421	34.814	20.248	53.818	1.00	28.47

AT-M	16112	CA	ILE	2422	37.759	26.422	54.656	1.00	19.62
AT-M	16113	CA	ILE	2422	37.487	26.040	54.257	1.00	17.25
AT-M	16114	CB	ILE	2422	37.764	26.396	54.811	1.00	19.41
AT-M	16115	CG2	ILE	2422	37.187	26.112	54.667	1.00	20.48
AT-M	16116	CG1	ILE	2422	36.664	26.889	54.792	1.00	21.17
AT-M	16117	CD1	ILE	2422	36.124	27.046	54.604	1.00	21.79
AT-M	16118	C	ILE	2422	37.574	26.332	54.249	1.00	17.69
AT-M	16119	C	ILE	2422	37.727	26.474	54.659	1.00	16.35
AT-M	16120	N	THR	2421	36.627	27.569	54.799	1.00	17.55
AT-M	16121	CA	THR	2423	29.686	27.873	52.997	1.00	20.46
AT-M	16122	CB	THR	2423	29.167	28.175	54.587	1.00	21.53
AT-M	16123	CG1	THR	2423	28.287	28.899	54.608	1.00	22.21
AT-M	16124	CG2	THR	2423	30.327	29.738	54.099	1.00	26.19
AT-M	16125	C	THR	2423	28.514	28.815	53.687	1.00	19.08
AT-M	16126	C	THR	2423	28.217	28.678	54.504	1.00	18.44
AT-M	16127	N	ALA	2424	27.877	28.661	53.157	1.00	18.78
AT-M	16128	CA	ALA	2424	26.737	28.476	53.133	1.00	16.80
AT-M	16129	CB	ALA	2424	27.187	28.720	53.294	1.00	17.89
AT-M	16130	C	ALA	2424	25.847	28.614	53.269	1.00	17.59
AT-M	16131	C	ALA	2424	26.347	28.785	53.577	1.00	15.04
AT-M	16132	N	TYE	2425	24.533	28.798	53.787	1.00	18.77
AT-M	16133	C	TYE	2425	27.677	28.981	54.154	1.00	17.37
AT-M	16134	CB	TYE	2425	27.097	29.033	54.158	1.00	16.33
AT-M	16135	C	TYE	2425	28.007	29.136	54.771	1.00	17.54
AT-M	16136	CG1	TYE	2425	27.913	29.546	54.703	1.00	18.81
AT-M	16137	CG2	TYE	2425	24.844	29.954	54.607	1.00	18.50
AT-M	16138	CD2	TYE	2425	24.946	29.785	54.917	1.00	17.67
AT-M	16139	CD1	TYE	2425	25.827	29.884	54.817	1.00	18.11
AT-M	16140	C	TYE	2425	25.766	29.926	54.169	1.00	18.74
AT-M	16141	DR	TYE	2425	26.607	29.418	54.065	1.00	21.47
AT-M	16142	C	TYE	2425	27.497	29.750	54.299	1.00	18.27
AT-M	16143	D	TYE	2425	27.677	29.732	54.243	1.00	20.57
AT-M	16144	N	ASP	2426	27.477	29.974	44.101	1.00	17.14
AT-M	16145	CB	ASP	2426	27.427	29.849	44.150	1.00	17.57
AT-M	16146	CB	ASP	2426	26.277	29.964	44.466	1.00	18.38
AT-M	16147	C	ASP	2426	26.581	29.925	44.184	1.00	18.73
AT-M	16148	CD1	ASP	2426	26.717	29.848	44.184	1.00	20.96
AT-M	16149	CD2	ASP	2426	26.687	29.890	44.186	1.00	18.11
AT-M	16150	C	ASP	2426	27.984	29.709	44.118	1.00	18.15
AT-M	16151	D	ASP	2426	27.985	29.720	44.617	1.00	18.43
AT-M	16152	N	TYE	2427	27.084	29.740	44.447	1.00	17.86
AT-M	16153	CA	TYE	2427	27.387	29.494	44.016	1.00	20.13
AT-M	16154	CB	TYE	2427	26.237	29.441	44.117	1.00	18.94
AT-M	16155	CG	TYE	2427	26.361	29.420	44.860	1.00	23.76
AT-M	16156	CD1	TYE	2427	27.142	29.833	44.873	1.00	20.50
AT-M	16157	CD2	TYE	2427	27.227	29.751	44.547	1.00	20.68
AT-M	16158	CD2	TYE	2427	19.581	29.851	44.594	1.00	20.01
AT-M	16159	CD2	TYE	2427	19.613	29.711	44.314	1.00	20.46
AT-M	16160	C	TYE	2427	26.473	29.156	44.244	1.00	24.74
AT-M	16171	OH	TYE	2427	26.526	29.439	44.096	1.00	23.17
AT-M	16172	C	TYE	2427	27.639	29.732	44.113	1.00	20.11
AT-M	16173	C	TYE	2427	27.699	29.124	44.163	1.00	19.79
AT-M	16174	N	SEP	2428	26.727	29.779	44.143	1.00	20.69
AT-M	16175	CA	SEP	2428	26.794	29.238	44.287	1.00	20.47
AT-M	16176	CB	SEP	2428	18.592	29.657	51.290	1.00	21.06
AT-M	16177	CG	SEP	2428	18.394	29.757	51.517	1.00	18.23
AT-M	16178	C	SEP	2428	27.077	29.250	51.107	1.00	20.33
AT-M	16179	C	SEP	2428	27.717	29.249	51.313	1.00	18.96
AT-M	16180	N	PHE	2429	27.456	29.073	51.583	1.00	18.97
AT-M	16181	CA	PHE	2429	27.673	29.976	51.363	1.00	18.46
AT-M	16182	CB	PHE	2429	27.733	29.649	51.119	1.00	17.47
AT-M	16183	CG	PHE	2429	27.916	29.637	51.341	1.00	18.23
AT-M	16184	CD1	PHE	2429	27.681	29.966	51.417	1.00	17.47
AT-M	16185	CD2	PHE	2429	27.372	29.296	51.524	1.00	15.99
AT-M	16186	CD1	PHE	2429	26.917	29.997	51.530	1.00	17.53
AT-M	16187	CD2	PHE	2429	27.617	29.317	51.636	1.00	13.77
AT-M	16188	CG	PHE	2429	27.376	29.661	51.727	1.00	17.54
AT-M	16189	C	PHE	2429	24.917	29.173	51.496	1.00	19.44
AT-M	16190	C	PHE	2429	25.887	29.183	51.924	1.00	18.28
AT-M	16191	N	ALA	2430	24.833	29.653	51.271	1.00	20.34
AT-M	16192	CA	ALA	2430	26.037	29.831	44.381	1.00	21.75
AT-M	16193	CB	ALA	2430	25.805	29.092	44.064	1.00	21.82
AT-M	16194	C	ALA	2430	26.251	29.379	44.319	1.00	23.90
AT-M	16195	C	ALA	2430	27.387	29.792	44.003	1.00	25.09
AT-M	16196	N	LYS	2431	25.146	27.665	44.637	1.00	24.33
AT-M	16197	CA	LYS	2431	25.185	28.509	44.799	1.00	25.19
AT-M	16198	CB	LYS	2431	23.767	28.999	44.466	1.00	24.19

ATOM	16199	CG	LYS	2431	23.846	30.478	46.124	1.00	29.73
ATOM	16200	CD	LYS	2431	24.818	30.816	46.811	1.00	34.33
ATOM	16201	CE	LYS	2431	23.775	32.113	46.241	1.00	37.47
ATOM	16202	NZ	LYS	2431	23.956	33.264	47.174	1.00	39.95
ATOM	16203	C	LYS	2431	24.712	19.148	50.027	1.00	24.17
ATOM	16204	O	LYS	2431	24.546	30.148	49.912	1.00	23.48
ATOM	16205	N	LEU	2432	25.119	18.858	51.198	1.00	15.71
ATOM	16206	CA	LEU	2432	25.041	19.468	51.411	1.00	23.86
ATOM	16207	CB	LEU	2432	24.812	18.898	53.609	1.00	21.16
ATOM	16208	CG	LEU	2432	25.055	19.415	55.031	1.00	19.80
ATOM	16209	CD1	LEU	2432	24.849	19.075	51.909	1.00	16.48
ATOM	16210	CD2	LEU	2432	24.822	18.796	55.611	1.00	16.28
ATOM	16211	C	LEU	2432	27.132	19.146	52.697	1.00	24.74
ATOM	16212	O	LEU	2432	27.825	30.135	53.180	1.00	25.72
ATOM	16213	N	PHE	2433	27.830	18.081	52.367	1.00	25.09
ATOM	16214	CA	PHE	2433	27.049	27.771	51.567	1.00	25.88
ATOM	16215	CE	PHE	2433	26.843	28.238	52.758	1.00	25.88
ATOM	16216	CG	PHE	2433	28.011	28.141	53.727	1.00	27.11
ATOM	16217	CD1	PHE	2433	28.480	18.778	54.811	1.00	26.19
ATOM	16218	CD2	PHE	2433	28.204	19.078	51.864	1.00	21.44
ATOM	16219	CE1	PHE	2433	27.688	14.878	55.439	1.00	11.18
ATOM	16220	CE2	PHE	2433	27.141	13.114	55.734	1.00	11.13
ATOM	16221	C	PHE	2433	27.281	18.981	51.668	1.00	23.88
ATOM	16222	CH	PHE	2433	26.711	18.387	51.836	1.00	28.13
ATOM	16223		PHE	2433	31.890	28.190	51.019	1.00	26.41
ATOM	16224	N	ALA	2434	29.171	18.981	46.819	1.00	28.11
ATOM	16225	CA	ALA	2434	30.341	18.981	49.514	1.00	18.75
ATOM	16226	CB	ALA	2434	29.114	18.171	47.184	1.00	18.88
ATOM	16227		ALA	2434	31.414	21.781	49.681	1.00	29.14
ATOM	16228	C	ALA	2434	31.461	21.781	49.470	1.00	19.88
ATOM	16229	N	ASP	2435	29.381	21.188	50.176	1.00	19.88
ATOM	16230	CA	ASP	2435	29.811	22.701	50.540	1.00	30.11
ATOM	16231	CB	ASP	2435	27.891	21.188	51.706	1.00	30.11
ATOM	16232	CG	ASP	2435	27.111	21.188	49.839	1.00	30.11
ATOM	16233	CD1	ASP	2435	27.540	21.188	48.439	1.00	27.84
ATOM	16234	CD2	ASP	2435	21.907	21.188	49.736	1.00	28.88
ATOM	16235	C	ASP	2435	31.148	21.188	51.787	1.00	21.07
ATOM	16236	CH	ASP	2435	31.791	24.181	52.111	1.00	31.88
ATOM	16237	N	GLU	2436	30.191	21.188	52.436	1.00	31.11
ATOM	16238	CA	GLU	2436	31.376	21.148	53.887	1.00	31.87
ATOM	16239	CB	GLU	2436	30.116	21.188	54.880	1.00	31.11
ATOM	16240	CG	GLU	2436	29.464	21.188	55.880	1.00	33.82
ATOM	16241	CD	GLU	2436	29.453	21.188	55.780	1.00	33.88
ATOM	16242	CE1	GLU	2436	31.387	23.741	56.411	1.00	35.71
ATOM	16243	CE2	GLU	2436	28.537	23.741	55.108	1.00	33.78
ATOM	16244	C	GLU	2436	31.836	21.790	53.472	1.00	32.48
ATOM	16245	O	GLU	2436	33.859	21.790	54.861	1.00	31.84
ATOM	16246	N	GLY	2437	33.161	21.790	51.234	1.00	32.18
ATOM	16247	CA	GLY	2437	34.841	23.758	52.036	1.00	33.73
ATOM	16248	C	GLY	2437	34.196	19.431	51.797	1.00	33.67
ATOM	16249	O	GLY	2437	35.759	23.796	51.148	1.00	36.34
ATOM	16250	N	LEU	2438	33.887	28.158	51.197	1.00	32.86
ATOM	16251	CA	LEU	2438	34.886	28.158	52.161	1.00	31.88
ATOM	16252	CB	LEU	2438	33.889	26.881	53.731	1.00	31.88
ATOM	16253	CG	LEU	2438	33.889	26.778	51.314	1.00	31.88
ATOM	16254	CD1	LEU	2438	33.889	25.111	51.111	1.00	31.88
ATOM	16255	CD2	LEU	2438	34.886	24.790	51.337	1.00	31.88
ATOM	16256	C	LEU	2438	33.810	26.810	50.697	1.00	31.88
ATOM	16257	O	LEU	2438	34.889	26.821	50.260	1.00	31.88
ATOM	16258	N	ASN	2439	34.889	26.811	49.911	1.00	31.88
ATOM	16259	CA	ASN	2439	34.889	26.810	49.510	1.00	28.49
ATOM	16260	CB	ASN	2439	35.881	27.336	49.736	1.00	31.88
ATOM	16261	CG	ASN	2439	35.889	28.761	48.111	1.00	31.88
ATOM	16262	CD1	ASN	2439	34.886	29.231	48.111	1.00	35.11
ATOM	16263	CD2	ASN	2439	36.886	29.421	48.461	1.00	33.10
ATOM	16264	C	ASN	2439	35.112	24.831	48.112	1.00	36.34
ATOM	16265	O	ASN	2439	35.344	24.531	47.012	1.00	33.25
ATOM	16266	N	VAL	2440	35.155	24.065	49.188	1.00	21.29
ATOM	16267	CA	VAL	2440	35.436	22.551	48.885	1.00	21.09
ATOM	16268	CB	VAL	2440	36.774	22.111	48.610	1.00	25.05
ATOM	16269	CD1	VAL	2440	37.007	20.788	48.315	1.00	21.31
ATOM	16270	CD2	VAL	2440	37.816	23.126	48.114	1.00	25.37
ATOM	16271	C	VAL	2440	34.833	21.341	48.537	1.00	22.62
ATOM	16272	O	VAL	2440	34.228	21.711	50.816	1.00	19.04
ATOM	16273	N	MET	2441	33.471	21.297	48.737	1.00	21.81
ATOM	16274	CA	MET	2441	32.832	20.529	48.183	1.00	22.07
ATOM	16275	CB	MET	2441	31.033	21.250	48.785	1.00	22.11

AT-M	16276	CS	MET	2441	30.682	22.414	49.695	1.00	23.98
AT-M	16277	SD	MET	2441	19.512	23.563	48.474	1.00	25.48
AT-M	16278	CE	MET	2441	30.566	25.021	48.733	1.00	24.85
AT-M	16279	C	MET	2441	31.235	13.118	48.637	1.00	20.47
AT-M	16280	O	MET	2441	31.712	13.867	47.503	1.00	19.61
AT-M	16281	N	LEU	2442	31.786	18.200	49.450	1.00	19.57
AT-M	16282	CA	LEU	2442	31.689	16.805	49.350	1.00	20.13
AT-M	16283	CE	LEU	2442	31.516	15.951	49.361	1.00	20.87
AT-M	16284	CS	LEU	2442	31.674	14.421	49.358	1.00	24.00
AT-M	16285	CD1	LEU	2442	31.517	13.810	50.661	1.00	25.41
AT-M	16286	CD2	LEU	2442	32.611	13.356	48.399	1.00	21.10
AT-M	16287	C	LEU	2442	30.714	16.307	49.104	1.00	18.00
AT-M	16288	O	LEU	2442	30.586	16.453	50.100	1.00	15.72
AT-M	16289	N	VAL	2443	29.816	15.930	47.999	1.00	16.73
AT-M	16290	CA	VAL	2443	29.481	15.155	47.331	1.00	16.13
AT-M	16291	CE	VAL	2443	29.850	15.767	46.957	1.00	13.80
AT-M	16292	CD1	VAL	2443	30.449	14.736	46.127	1.00	13.83
AT-M	16293	CD2	VAL	2443	29.707	14.815	46.117	1.00	23.80
AT-M	16294	C	VAL	2443	28.743	13.605	48.160	1.00	13.17
AT-M	16295	O	VAL	2443	29.909	13.916	47.113	1.00	13.75
AT-M	16296	N	GLY	2444	29.779	13.178	45.170	1.00	13.09
AT-M	16297	CA	GLY	2444	29.047	11.901	45.070	1.00	13.77
AT-M	16298	C	GLY	2444	29.849	12.615	50.060	1.00	16.73
AT-M	16299	O	GLY	2444	29.707	11.499	50.060	1.00	14.98
AT-M	16300	N	ASP	2445	29.080	8.706	50.013	1.00	13.10
AT-M	16301	CA	ASP	2445	29.981	8.704	50.013	1.00	13.10
AT-M	16302	CE	ASP	2445	29.780	7.139	49.800	1.00	23.18
AT-M	16303	CS	ASP	2445	29.570	6.810	50.478	1.00	23.03
AT-M	16304	CD1	ASP	2445	29.013	7.424	51.440	1.00	23.09
AT-M	16305	CD2	ASP	2445	29.009	8.741	50.000	1.00	23.23
AT-M	16306	C	ASP	2445	29.531	8.835	51.489	1.00	13.90
AT-M	16307	O	ASP	2445	29.646	8.079	52.090	1.00	13.83
AT-M	16308	N	LEU	2446	29.176	8.117	52.490	1.00	13.01
AT-M	16309	CA	LEU	2446	29.110	8.842	52.883	1.00	13.43
AT-M	16310	CE	LEU	2446	29.376	10.877	54.801	1.00	13.11
AT-M	16311	CS	LEU	2446	29.690	11.075	53.880	1.00	13.20
AT-M	16312	C	LEU	2446	29.280	10.134	53.818	1.00	13.80
AT-M	16313	O	LEU	2446	29.510	10.114	54.700	1.00	13.83
AT-M	16314	N	LEU	2447	29.859	10.885	52.700	1.00	13.83
AT-M	16315	CA	LEU	2447	29.511	11.066	52.490	1.00	13.03
AT-M	16316	CE	LEU	2447	29.183	11.005	51.060	1.00	13.79
AT-M	16317	CS	LEU	2447	29.435	11.179	49.818	1.00	14.13
AT-M	16318	CD1	LEU	2447	29.038	10.519	49.557	1.00	13.78
AT-M	16319	CD2	LEU	2447	29.856	11.983	48.847	1.00	14.51
AT-M	16320	C	LEU	2447	29.505	10.182	52.633	1.00	16.55
AT-M	16321	O	LEU	2447	31.015	10.464	52.923	1.00	16.83
AT-M	16322	N	GLY	2448	31.974	9.463	52.430	1.00	13.34
AT-M	16323	CA	GLY	2448	32.090	7.856	52.549	1.00	16.03
AT-M	16324	C	GLY	2448	31.544	7.753	53.080	1.00	16.17
AT-M	16325	O	GLY	2448	30.408	7.112	54.150	1.00	13.30
AT-M	16326	N	MET	2449	32.790	8.187	54.918	1.00	16.80
AT-M	16327	CA	MET	2449	33.871	8.145	56.091	1.00	16.34
AT-M	16328	CE	MET	2449	32.656	7.834	57.157	1.00	13.82
AT-M	16329	CS	MET	2449	32.644	8.484	56.710	1.00	21.33
AT-M	16330	CD1	MET	2449	34.990	8.909	57.790	1.00	23.21
AT-M	16331	CD2	MET	2449	34.575	8.702	59.170	1.00	23.10
AT-M	16332	C	MET	2449	33.100	9.002	56.720	1.00	13.00
AT-M	16333	O	MET	2449	30.194	8.710	57.177	1.00	13.30
AT-M	16334	N	TRP	2450	31.170	10.886	56.590	1.00	16.71
AT-M	16335	CA	TRP	2450	31.774	11.990	57.000	1.00	13.87
AT-M	16336	C	TRP	2450	31.970	11.982	56.910	1.00	23.10
AT-M	16337	CD1	TRP	2450	29.600	13.101	57.480	1.00	23.73
AT-M	16338	CD2	TRP	2450	29.584	13.107	55.460	1.00	23.13
AT-M	16339	C	TRP	2450	30.500	13.075	58.210	1.00	13.18
AT-M	16340	O	TRP	2450	30.784	13.137	58.390	1.00	16.73
AT-M	16341	N	VAL	2451	30.480	13.117	54.943	1.00	16.86
AT-M	16342	CA	VAL	2451	30.380	13.009	54.153	1.00	17.00
AT-M	16343	CE	VAL	2451	30.904	13.119	54.770	1.00	13.71
AT-M	16344	CD1	VAL	2451	30.737	13.007	51.857	1.00	13.83
AT-M	16345	CD2	VAL	2451	29.741	13.541	50.963	1.00	13.61
AT-M	16346	C	VAL	2451	30.215	13.670	53.900	1.00	15.14
AT-M	16347	O	VAL	2451	31.073	13.131	54.168	1.00	13.17
AT-M	16348	N	GLN	2452	30.580	13.681	53.415	1.00	14.84
AT-M	16349	CA	GLN	2452	31.573	13.605	53.135	1.00	15.81
AT-M	16350	CE	GLN	2452	30.130	13.688	54.137	1.00	11.46
AT-M	16351	C	GLN	2452	30.880	13.117	53.860	1.00	14.71
AT-M	16352	O	GLN	2452	30.180	13.101	53.890	1.00	10.79

ATOM	16353	OE1	GLN	2452	19.456	7.044	50.279	1.00	14.39
ATOM	16354	NE2	GLN	2452	19.331	8.569	48.627	1.00	12.31
ATOM	16355	C	GLN	2452	17.071	8.883	54.176	1.00	15.31
ATOM	16356	O	GLN	2452	15.431	8.424	54.417	1.00	16.95
ATOM	16357	N	GLY	2453	15.419	8.760	55.397	1.00	16.51
ATOM	16358	CA	GLY	2453	17.480	8.111	56.119	1.00	17.52
ATOM	16359	C	GLY	2453	17.691	6.616	56.731	1.00	16.57
ATOM	16360	O	GLY	2453	17.069	5.961	57.567	1.00	15.47
ATOM	16361	N	HIS	2454	18.577	6.070	55.903	1.00	17.16
ATOM	16362	CA	HIS	2454	18.478	4.638	55.945	1.00	16.47
ATOM	16363	CB	HIS	2454	19.485	3.188	54.616	1.00	16.80
ATOM	16364	CG	HIS	2454	18.521	4.710	53.477	1.00	17.41
ATOM	16365	CE2	HIS	2454	18.477	4.977	52.263	1.00	17.85
ATOM	16366	NE1	HIS	2454	17.454	5.344	52.396	1.00	16.86
ATOM	16367	CF1	HIS	2454	16.790	6.178	50.278	1.00	19.45
ATOM	16368	NF2	HIS	2454	17.387	4.459	51.653	1.00	18.12
ATOM	16369	C	HIS	2454	19.877	1.349	52.061	1.00	17.34
ATOM	16370	CI	HIS	2454	20.858	0.155	52.353	1.00	18.56
ATOM	16371	N	ASP	2455	19.417	3.084	52.479	1.00	18.16
ATOM	16372	CA	ASP	2455	20.758	1.546	52.531	1.00	21.17
ATOM	16373	CB	ASP	2455	20.437	1.170	51.073	1.00	25.35
ATOM	16374	CC	ASP	2455	20.789	0.119	52.891	1.00	30.52
ATOM	16375	CD	ASP	2455	21.771	0.020	52.111	1.00	32.11
ATOM	16376	CE2	ASP	2455	19.844	-0.149	52.883	1.00	35.11
ATOM	16377	C	ASP	2455	22.317	1.161	52.501	1.00	20.40
ATOM	16378	O	ASP	2455	22.114	1.291	52.857	1.00	21.18
ATOM	16379	N	SER	2456	17.747	1.782	52.773	1.00	19.54
ATOM	16380	CA	SER	2456	18.754	0.721	52.216	1.00	19.12
ATOM	16381	CB	SER	2456	14.698	1.166	52.985	1.00	20.10
ATOM	16382	CG	SER	2456	17.043	0.497	52.870	1.00	21.19
ATOM	16383	C	SER	2456	17.418	0.497	54.265	1.00	17.48
ATOM	16384	O	SER	2456	17.699	0.981	54.149	1.00	17.16
ATOM	16385	N	THR	2457	21.111	0.616	51.513	1.00	14.78
ATOM	16386	CA	THR	2457	21.247	0.147	52.117	1.00	15.45
ATOM	16387	CB	THR	2457	18.641	1.091	52.351	1.00	14.54
ATOM	16388	CG1	THR	2457	17.162	1.473	52.701	1.00	14.51
ATOM	16389	CG2	THR	2457	18.283	0.743	52.237	1.00	15.15
ATOM	16390	C	THR	2457	18.781	0.488	52.416	1.00	14.19
ATOM	16391	O	THR	2457	14.914	0.981	52.760	1.00	14.18
ATOM	16392	N	LEU	2458	24.977	1.115	52.603	1.00	13.46
ATOM	16393	CA	LEU	2458	14.778	1.117	52.580	1.00	15.15
ATOM	16394	CB	LEU	2458	14.789	-0.119	52.299	1.00	16.30
ATOM	16395	CG	LEU	2458	20.157	-0.357	52.111	1.00	18.54
ATOM	16396	CD1	LEU	2458	20.834	-0.141	52.181	1.00	18.15
ATOM	16397	CD2	LEU	2458	20.937	-0.321	52.036	1.00	19.18
ATOM	16398	C	LEU	2458	17.067	1.383	48.534	1.00	16.38
ATOM	16399	O	LEU	2458	22.817	1.165	48.660	1.00	16.10
ATOM	16400	N	PRO	2459	21.446	1.643	50.388	1.00	17.11
ATOM	16401	CD	PRO	2459	20.086	1.046	51.891	1.00	17.16
ATOM	16402	CA	PRO	2459	21.757	1.077	44.493	1.00	16.65
ATOM	16403	CB	PRO	2459	20.189	1.276	50.468	1.00	15.19
ATOM	16404	C	PRO	2459	21.879	0.896	51.713	1.00	23.52
ATOM	16405	CG	PRO	2459	23.524	0.114	48.591	1.00	16.36
ATOM	16406	O	PRO	2459	20.800	0.111	47.511	1.00	17.14
ATOM	16407	N	VAL	2460	21.186	1.197	48.166	1.00	12.18
ATOM	16408	CA	VAL	2460	21.121	0.119	47.382	1.00	14.10
ATOM	16409	CB	VAL	2460	17.775	0.147	48.450	1.00	14.51
ATOM	16410	CG1	VAL	2460	14.965	0.779	47.453	1.00	14.36
ATOM	16411	CG2	VAL	2460	21.323	0.776	48.780	1.00	13.34
ATOM	16412	C	VAL	2460	18.101	0.787	48.511	1.00	15.13
ATOM	16413	O	VAL	2460	24.101	1.088	48.337	1.00	14.73
ATOM	16414	N	THR	2461	21.147	0.778	48.466	1.00	16.35
ATOM	16415	CA	THR	2461	20.421	1.093	44.139	1.00	19.10
ATOM	16416	CB	THR	2461	21.753	0.681	43.103	1.00	24.16
ATOM	16417	CG1	THR	2461	20.513	1.329	43.352	1.00	25.32
ATOM	16418	CG2	THR	2461	22.023	1.177	43.616	1.00	25.34
ATOM	16419	C	THR	2461	23.450	0.911	43.351	1.00	18.13
ATOM	16420	O	THR	2461	23.333	0.153	43.802	1.00	17.30
ATOM	16421	N	VAL	2462	21.074	0.758	42.207	1.00	16.11
ATOM	16422	CA	VAL	2462	21.651	0.323	41.392	1.00	16.40
ATOM	16423	CB	VAL	2462	21.214	0.253	40.072	1.00	15.77
ATOM	16424	CG1	VAL	2462	20.754	0.369	39.219	1.00	15.65
ATOM	16425	CG2	VAL	2462	20.275	0.213	40.385	1.00	18.55
ATOM	16426	C	VAL	2462	21.679	0.951	41.057	1.00	16.36
ATOM	16427	O	VAL	2462	24.061	0.127	41.020	1.00	16.32
ATOM	16428	N	ALA	2463	21.431	0.594	40.804	1.00	14.77
ATOM	16429	CA	ALA	2463	21.417	0.587	40.475	1.00	15.14

ATOM	16430	CB	ALA	2462	20.100	7.900	40.118	1.00	17.40
ATOM	16431	C	ALA	2463	21.211	8.540	41.647	1.00	15.53
ATOM	16432	O	ALA	2463	20.998	10.737	41.448	1.00	17.50
ATOM	16433	N	ASP	2464	21.260	9.009	42.864	1.00	15.85
ATOM	16434	CA	ASP	2464	21.096	9.837	44.351	1.00	15.44
ATOM	16435	CP	ASP	2464	21.161	8.959	45.178	1.00	15.36
ATOM	16436	CG	ASP	2464	19.964	8.076	45.114	1.00	16.11
ATOM	16437	OD1	ASP	2464	18.885	8.313	44.970	1.00	12.53
ATOM	16438	OD2	ASP	2464	20.110	7.088	46.176	1.00	15.10
ATOM	16439	C	ASP	2465	22.229	10.859	44.078	1.00	15.31
ATOM	16440	O	ASP	2465	22.000	12.058	44.249	1.00	14.61
ATOM	16441	N	ILE	2466	23.460	10.364	43.910	1.00	14.73
ATOM	16442	CA	ILE	2466	24.613	11.283	43.908	1.00	14.11
ATOM	16443	CB	ILE	2466	25.937	10.504	43.718	1.00	14.68
ATOM	16444	CG2	ILE	2466	27.104	11.464	43.609	1.00	12.92
ATOM	16445	CG1	ILE	2466	26.159	8.911	44.301	1.00	11.78
ATOM	16446	CD1	ILE	2466	26.437	10.103	46.124	1.00	16.20
ATOM	16447	C	ILE	2467	24.482	12.977	42.107	1.00	14.08
ATOM	16448	O	ILE	2467	24.675	13.353	43.119	1.00	15.58
ATOM	16449	N	ALA	2468	24.157	11.908	41.642	1.00	15.09
ATOM	16450	CA	ALA	2468	23.093	12.963	43.111	1.00	14.00
ATOM	16451	CB	ALA	2468	21.601	12.229	38.146	1.00	15.76
ATOM	16452	C	ALA	2468	21.642	14.043	40.349	1.00	14.18
ATOM	16453	O	ALA	2468	21.692	15.275	40.345	1.00	16.25
ATOM	16454	N	TYR	2469	21.751	12.613	41.118	1.00	15.16
ATOM	16455	CA	TYR	2469	24.792	13.517	41.854	1.00	14.44
ATOM	16456	CB	TYR	2469	19.600	13.344	42.186	1.00	15.17
ATOM	16457	CG	TYR	2469	18.117	13.993	43.194	1.00	16.93
ATOM	16458	CD1	TYR	2469	17.861	13.271	42.112	1.00	15.18
ATOM	16459	CE1	TYR	2469	18.803	13.616	42.165	1.00	17.09
ATOM	16460	CD2	TYR	2469	18.301	13.680	43.471	1.00	15.80
ATOM	16461	CE2	TYR	2469	18.281	13.419	48.940	1.00	17.89
ATOM	16462	C	TYR	2469	16.415	13.084	44.141	1.00	16.01
ATOM	16463	OH	TYR	2469	15.315	12.787	44.605	1.00	16.98
ATOM	16464	N	TYR	2469	21.293	13.606	42.667	1.00	11.99
ATOM	16465	C	TYR	2469	21.094	16.793	41.805	1.00	14.73
ATOM	16466	N	HIS	2470	21.342	13.180	43.305	1.00	13.69
ATOM	16467	CA	HIS	2470	21.930	13.225	44.307	1.00	14.18
ATOM	16468	CB	HIS	2470	22.802	13.390	44.174	1.00	13.15
ATOM	16469	CG	HIS	2470	21.632	14.866	46.804	1.00	17.11
ATOM	16470	CD2	HIS	2470	21.040	13.606	46.309	1.00	17.17
ATOM	16471	ND1	HIS	2470	20.707	13.671	45.649	1.00	15.97
ATOM	16472	CE1	HIS	2470	19.702	14.963	48.104	1.00	17.30
ATOM	16473	NE2	HIS	2470	19.945	13.307	47.793	1.00	18.13
ATOM	16474	C	HIS	2470	23.606	16.906	44.378	1.00	15.13
ATOM	16475	O	HIS	2470	23.854	18.049	44.303	1.00	14.82
ATOM	16476	N	THR	2471	24.301	16.366	43.432	1.00	15.33
ATOM	16477	CA	THR	2471	25.527	17.001	43.492	1.00	16.60
ATOM	16478	CB	THR	2471	26.358	16.233	41.868	1.00	16.20
ATOM	16479	CG1	THR	2471	27.046	15.384	43.781	1.00	17.12
ATOM	16480	CG2	THR	2471	27.352	16.903	41.114	1.00	14.14
ATOM	16481	C	THR	2471	25.046	18.216	42.978	1.00	16.62
ATOM	16482	O	THR	2471	25.611	19.383	42.215	1.00	18.28
ATOM	16483	N	ALA	2470	24.034	18.232	42.116	1.00	17.01
ATOM	16484	CA	ALA	2470	23.598	19.232	40.443	1.00	16.73
ATOM	16485	CP	ALA	2470	23.383	12.736	39.349	1.00	18.75
ATOM	16486	C	ALA	2470	22.992	20.310	41.301	1.00	17.94
ATOM	16487	O	ALA	2470	23.185	21.505	41.115	1.00	18.99
ATOM	16488	N	ALA	2471	22.342	19.911	42.479	1.00	17.24
ATOM	16489	CA	ALA	2471	21.807	20.875	43.445	1.00	19.28
ATOM	16490	CB	ALA	2471	21.024	20.135	44.519	1.00	18.10
ATOM	16491	C	ALA	2471	22.921	21.205	44.003	1.00	20.35
ATOM	16492	O	ALA	2471	22.814	22.007	44.101	1.00	22.02
ATOM	16493	N	VAL	2472	22.987	21.026	44.510	1.00	21.49
ATOM	16494	CA	VAL	2472	25.126	21.290	45.114	1.00	20.56
ATOM	16495	CB	VAL	2472	26.148	20.970	45.669	1.00	20.43
ATOM	16496	CG1	VAL	2472	25.441	21.359	46.104	1.00	19.63
ATOM	16497	CG2	VAL	2472	25.543	19.491	46.802	1.00	17.07
ATOM	16498	C	VAL	2472	25.829	22.069	44.173	1.00	21.47
ATOM	16499	O	VAL	2472	26.210	23.763	44.582	1.00	20.68
ATOM	16500	N	ARG	2473	25.003	23.711	42.408	1.00	20.73
ATOM	16501	CA	ARG	2473	25.651	23.043	41.349	1.00	20.97
ATOM	16502	CB	ARG	2473	25.805	23.273	40.662	1.00	21.67
ATOM	16503	CG	ARG	2473	27.384	23.113	39.400	1.00	23.01
ATOM	16504	CD	ARG	2473	25.310	23.071	39.889	1.00	23.89
ATOM	16505	NE	ARG	2473	25.797	21.711	39.994	1.00	23.45
ATOM	16506	C	ARG	2473	25.937	23.899	40.504	1.00	26.20

ATOM	16507	NH1	APG	2473	31.148	23.941	41.320	1.00	24.63
ATOM	16508	NH2	AFS	2473	31.864	21.915	40.515	1.00	21.41
ATOM	16509	C	AFS	2473	25.857	24.326	41.699	1.00	22.17
ATOM	16510	O	AFS	2473	26.437	25.598	41.529	1.00	23.41
ATOM	16511	N	AFS	2474	24.532	24.129	41.584	1.00	20.61
ATOM	16512	CA	AFS	2474	23.728	25.424	41.459	1.00	22.01
ATOM	16513	CB	AFS	2474	21.237	19.675	41.369	1.00	21.13
ATOM	16514	CG	AFS	2474	21.883	14.187	40.178	1.00	25.91
ATOM	16515	CD	AFS	2474	26.381	14.163	34.983	1.00	26.31
ATOM	16516	NE	AFS	2474	20.073	13.166	34.950	1.00	29.17
ATOM	16517	OZ	AFS	2474	19.951	11.859	39.119	1.00	36.49
ATOM	16518	NH1	AFS	2474	20.205	11.701	39.370	1.00	31.05
ATOM	16519	NH2	AFS	2474	19.628	21.636	38.166	1.00	29.83
ATOM	16520	C	AFS	2474	23.956	16.446	41.571	1.00	21.79
ATOM	16521	O	AFS	2474	23.888	17.681	40.367	1.00	19.95
ATOM	16522	N	GLY	2473	24.249	19.459	43.772	1.00	21.36
ATOM	16523	CA	GLY	2473	24.487	16.855	41.889	1.00	21.25
ATOM	16524	C	GLY	2473	25.925	17.587	41.982	1.00	21.98
ATOM	16525	O	GLY	2473	26.186	18.396	41.112	1.00	17.43
ATOM	16526	N	ALA	2473	26.848	16.188	41.818	1.00	21.01
ATOM	16527	CA	ALA	2473	28.254	16.906	41.437	1.00	21.39
ATOM	16528	CB	ALA	2473	28.948	16.119	41.636	1.00	23.53
ATOM	16529	C	ALA	2473	28.930	16.117	41.124	1.00	19.31
ATOM	16530	O	ALA	2473	29.616	15.438	41.066	1.00	21.36
ATOM	16531	N	PED	2473	28.711	17.381	41.074	1.00	16.33
ATOM	16532	CD	PED	2473	27.902	18.388	41.005	1.00	18.95
ATOM	16533	CA	PED	2473	29.322	17.038	41.717	1.00	19.98
ATOM	16534	CB	PED	2473	28.905	18.038	40.853	1.00	18.17
ATOM	16535	CG	PED	2473	28.419	29.104	41.348	1.00	19.63
ATOM	16536	C	PED	2473	30.183	17.123	41.564	1.00	19.31
ATOM	16537	O	PED	2473	31.441	16.886	39.736	1.00	16.39
ATOM	16538	N	ASN	2473	31.453	17.778	41.661	1.00	16.39
ATOM	16539	CA	ASN	2473	31.835	17.974	41.621	1.00	19.63
ATOM	16540	CB	ASN	2473	30.329	19.485	41.881	1.00	30.07
ATOM	16541	CG	ASN	2473	31.271	30.086	41.083	1.00	31.58
ATOM	16542	CD1	ASN	2473	31.833	30.334	39.665	1.00	11.11
ATOM	16543	CD2	ASN	2473	31.667	31.115	41.792	1.00	14.18
ATOM	16544	C	ASN	2473	30.616	17.113	41.973	1.00	18.36
ATOM	16545	O	ASN	2473	34.828	15.331	41.040	1.00	19.31
ATOM	16546	N	CYS	2473	31.877	16.159	41.402	1.00	21.36
ATOM	16547	CA	CYS	2473	31.487	15.334	41.816	1.00	14.33
ATOM	16548	CB	CYS	2473	30.444	15.031	41.475	1.00	25.50
ATOM	16549	CG	CYS	2473	31.459	13.751	41.033	1.00	16.31
ATOM	16550	C	CYS	2473	24.172	14.184	40.845	1.00	24.27
ATOM	16551	O	CYS	2473	23.787	23.786	40.740	1.00	23.85
ATOM	16552	N	LEU	2480	25.065	25.316	43.583	1.00	21.97
ATOM	16553	CA	LEU	2480	25.697	12.175	44.175	1.00	22.38
ATOM	16554	CB	LEU	2480	27.860	30.183	44.812	1.00	22.33
ATOM	16555	CG	LEU	2480	25.783	30.551	41.184	1.00	23.00
ATOM	16556	CD1	LEU	2480	27.890	30.584	41.095	1.00	23.31
ATOM	16557	CD2	LEU	2480	26.187	30.188	41.335	1.00	21.05
ATOM	16558	C	LEU	2480	24.693	31.134	41.683	1.00	21.39
ATOM	16559	O	LEU	2480	34.171	31.113	41.583	1.00	20.03
ATOM	16560	N	LEU	2481	23.869	39.734	41.743	1.00	16.34
ATOM	16561	CA	LEU	2481	25.316	19.777	41.049	1.00	19.69
ATOM	16562	CB	LEU	2481	21.684	30.187	40.217	1.00	31.31
ATOM	16563	CG	LEU	2481	23.185	19.137	43.716	1.00	24.25
ATOM	16564	CD1	LEU	2481	26.351	20.167	42.306	1.00	34.77
ATOM	16565	CD2	LEU	2481	31.184	18.194	43.305	1.00	35.45
ATOM	16566	C	LEU	2481	23.184	19.123	43.933	1.00	26.50
ATOM	16567	O	LEU	2481	23.861	17.175	41.816	1.00	30.38
ATOM	16568	N	LEU	2481	23.151	17.113	43.646	1.00	19.31
ATOM	16569	CA	LEU	2482	23.844	16.111	45.030	1.00	19.49
ATOM	16570	CB	LEU	2482	24.176	15.189	46.198	1.00	19.36
ATOM	16571	CG	LEU	2482	24.119	16.104	46.167	1.00	31.33
ATOM	16572	CD1	LEU	2482	26.385	17.105	45.908	1.00	26.35
ATOM	16573	CD2	LEU	2482	31.947	15.154	47.372	1.00	19.39
ATOM	16574	C	LEU	2482	22.569	15.397	46.178	1.00	19.92
ATOM	16575	O	LEU	2482	11.701	15.152	45.973	1.00	11.33
ATOM	16576	N	ALA	2483	22.833	14.323	44.411	1.00	18.33
ATOM	16577	CA	ALA	2483	11.240	13.393	44.541	1.00	16.34
ATOM	16578	CB	ALA	2483	10.348	13.137	43.333	1.00	11.33
ATOM	16579	C	ALA	2483	11.678	12.351	44.714	1.00	11.99
ATOM	16580	O	ALA	2483	21.594	11.391	44.039	1.00	11.38
ATOM	16581	N	ASP	2483	11.933	11.146	46.636	1.00	11.33
ATOM	16582	CA	ASP	2483	11.363	9.952	45.907	1.00	16.33
ATOM	16583	CB	ASP	2483	11.313	9.136	45.195	1.00	16.31

ATOM	165P4	CG	ASP	2484	31.751	9.800	48.420	1.00	21.09
ATOM	165P5	CD1	ASP	2484	32.952	10.027	48.201	1.00	23.51
ATOM	165P6	CD2	ASP	2484	-1.259	9.765	49.567	1.00	25.92
ATOM	165P7	C	ASP	2484	0.751	8.990	44.906	1.00	16.88
ATOM	165P8	C	ASP	2484	29.679	9.752	44.362	1.00	17.02
ATOM	165P9	N	LEU	2485	1.437	5.878	44.664	1.00	16.05
ATOM	165P0	CA	LEU	2485	0.856	6.828	43.837	1.00	16.81
ATOM	165P1	CB	LEU	2485	1.687	6.120	42.968	1.00	17.56
ATOM	165P2	CG	LEU	2485	32.362	6.967	41.791	1.00	18.54
ATOM	165P3	CD1	LEU	2485	-2.158	6.088	40.829	1.00	19.06
ATOM	165P4	CD2	LEU	2485	-1.157	7.568	41.072	1.00	18.74
ATOM	165P5	C	LEU	2485	20.367	5.900	44.936	1.00	15.90
ATOM	165P6	O	LEU	2485	21.145	5.447	45.773	1.00	16.45
ATOM	165P7	N	PHE	2486	29.057	5.658	44.970	1.00	17.02
ATOM	165P8	CD	PHE	2486	18.055	6.209	44.052	1.00	16.98
ATOM	165P9	CA	PHE	2486	18.427	4.777	45.968	1.00	15.66
ATOM	166P0	CB	PHE	2486	16.917	5.042	45.750	1.00	15.78
ATOM	166P1	CG	PHE	2486	26.860	5.812	44.276	1.00	16.02
ATOM	166P2	C	PHE	2486	17.778	5.187	45.908	1.00	14.73
ATOM	166P3	O	PHE	2486	28.499	2.872	45.025	1.00	14.20
ATOM	166P4	N	PRE	2487	28.201	2.559	46.890	1.00	14.27
ATOM	166P5	CA	PRE	2487	28.469	1.225	47.011	1.00	15.34
ATOM	166P6	CB	PRE	2487	27.101	0.881	48.074	1.00	15.81
ATOM	166P7	CG	PRE	2487	27.716	-0.119	48.087	1.00	17.17
ATOM	166P8	CD1	PRE	2487	28.450	-1.746	48.128	1.00	16.75
ATOM	166P9	CD2	PRE	2487	26.106	-1.104	47.874	1.00	15.14
ATOM	166P0	CE1	PRE	2487	28.700	-2.121	48.869	1.00	18.81
ATOM	166P1	CE2	PRE	2487	25.948	-2.187	47.815	1.00	18.38
ATOM	166P2	CZ	PRE	2487	27.050	-1.106	48.160	1.00	17.47
ATOM	166P3	C	PRE	2487	28.083	-0.889	45.876	1.00	16.56
ATOM	166P4	O	PRE	2487	27.257	-0.335	45.007	1.00	15.32
ATOM	166P5	N	MET	2488	28.287	-0.196	45.801	1.00	16.80
ATOM	166P6	CA	MET	2488	29.105	-1.193	44.073	1.00	16.45
ATOM	166P7	CB	MET	2488	28.165	-2.121	44.174	1.00	17.34
ATOM	166P8	CG	MET	2488	28.596	-3.114	43.453	1.00	17.50
ATOM	166P9	CD	MET	2488	30.118	-4.147	41.821	1.00	15.86
ATOM	166P0	CE	MET	2488	28.846	-5.126	41.14	1.00	15.34
ATOM	166P1	C	MET	2488	28.864	-6.164	41.804	1.00	18.15
ATOM	166P2	O	MET	2488	28.318	-6.882	41.827	1.00	17.92
ATOM	166P3	N	ALA	2489	29.547	-0.862	41.810	1.00	15.75
ATOM	166P4	CA	ALA	2489	28.717	-1.330	41.641	1.00	16.90
ATOM	166P5	CB	ALA	2489	28.962	-3.132	41.174	1.00	15.15
ATOM	166P6	C	ALA	2489	31.750	-1.807	40.891	1.00	14.87
ATOM	166P7	O	ALA	2489	20.887	-2.339	39.016	1.00	16.09
ATOM	166P8	N	TYR	2490	1.711	1.740	41.357	1.00	16.17
ATOM	166P9	CA	TYR	2490	23.943	1.800	40.705	1.00	16.84
ATOM	166P0	CB	TYR	2490	-0.978	2.171	41.195	1.00	17.16
ATOM	166P1	CG	TYR	2490	4.011	2.131	41.811	1.00	19.16
ATOM	166P2	CD1	TYR	2490	5.039	1.21	43.838	1.00	18.18
ATOM	166P3	CD2	TYR	2490	5.062	1.721	41.039	1.00	18.14
ATOM	166P4	CE1	TYR	2490	3.011	2.195	43.815	1.00	20.42
ATOM	166P5	CE2	TYR	2490	3.017	2.155	43.807	1.00	20.12
ATOM	166P6	CZ	TYR	2490	4.042	2.144	46.615	1.00	21.10
ATOM	166P7	DE	TYR	2490	4.038	2.133	46.095	1.00	18.16
ATOM	166P8	C	TYR	2490	3.652	-0.690	41.871	1.00	15.16
ATOM	166P9	O	TYR	2490	4.842	-0.122	41.154	1.00	15.19
ATOM	166P0	N	ALA	2491	-2.821	-1.313	41.08	1.00	15.34
ATOM	166P1	CA	ALA	2491	3.340	-2.803	41.047	1.00	16.21
ATOM	166P2	CB	ALA	2491	2.016	-3.716	41.865	1.00	16.08
ATOM	166P3	C	ALA	2491	4.218	-3.258	39.765	1.00	16.11
ATOM	166P4	O	ALA	2491	-4.948	-4.323	34.945	1.00	16.54
ATOM	166P5	N	THR	2492	4.186	-2.571	38.631	1.00	17.29
ATOM	166P6	CA	THR	2492	3.127	-2.863	37.544	1.00	18.64
ATOM	166P7	CB	THR	2492	4.507	-3.747	36.423	1.00	17.42
ATOM	166P8	CG1	THR	2492	3.628	-2.448	35.619	1.00	18.61
ATOM	166P9	CG2	THR	2492	13.753	-4.419	37.015	1.00	16.54
ATOM	166P0	C	THR	2492	13.476	-1.517	36.933	1.00	18.29
ATOM	166P1	O	THR	2492	14.795	-0.563	37.040	1.00	17.73
ATOM	166P2	N	PRO	2493	16.655	-1.416	36.316	1.00	20.53
ATOM	166P3	CD	PRO	2493	17.710	-2.440	36.217	1.00	22.23
ATOM	166P4	CA	PRO	2493	17.031	-0.163	35.996	1.00	21.25
ATOM	166P5	CB	PRO	2493	13.353	-0.561	34.968	1.00	22.14
ATOM	166P6	CG	PRO	2493	18.925	-1.615	35.861	1.00	22.73
ATOM	166P7	C	PRO	2493	16.031	-0.379	34.737	1.00	21.17
ATOM	166P8	O	PRO	2493	15.718	-1.567	34.752	1.00	20.97
ATOM	166P9	N	GLY	2494	15.477	-0.499	33.908	1.00	21.51
ATOM	166P0	CA	GLY	2494	14.485	-0.062	32.934	1.00	22.98

ATOM	16661	CB	GLU	2494	34.027	-1.249	32.078	1.00	27.93
ATOM	16662	CG	GLU	2494	32.193	-0.865	30.862	1.00	35.30
ATOM	16663	CD	GLU	2494	31.127	-1.979	29.825	1.00	39.26
ATOM	16664	OE1	GLU	2494	30.813	-3.129	29.107	1.00	40.58
ATOM	16665	OE2	GLU	2494	30.381	-1.701	28.629	1.00	41.62
ATOM	16666	O	GLU	2494	30.196	-0.596	30.829	1.00	21.02
ATOM	16667	O	GLU	2494	31.867	1.674	33.036	1.00	20.30
ATOM	16668	E	GLN	2495	32.568	-0.042	34.563	1.00	19.42
ATOM	16669	CA	GLN	2495	31.636	-0.536	35.377	1.00	21.90
ATOM	16670	CB	GLN	2495	31.101	-0.446	36.411	1.00	25.01
ATOM	16671	CG	GLN	2495	30.627	-1.745	35.869	1.00	31.47
ATOM	16672	CD	GLN	2495	29.946	-2.626	36.814	1.00	34.62
ATOM	16673	OE1	GLN	2495	28.836	-2.332	37.159	1.00	37.69
ATOM	16674	OE2	GLN	2495	30.614	-3.767	37.102	1.00	39.43
ATOM	16675	O	GLN	2495	32.044	1.835	36.036	1.00	18.31
ATOM	16676	O	GLN	2495	31.269	2.788	36.111	1.00	16.24
ATOM	16677	N	ALA	2496	30.062	1.870	36.833	1.00	18.87
ATOM	16678	CA	ALA	2496	30.756	2.072	37.256	1.00	18.79
ATOM	16679	CB	ALA	2496	31.161	2.847	37.739	1.00	19.17
ATOM	16680	ALA	ALA	2496	30.558	4.248	36.138	1.00	17.33
ATOM	16681	ALA	ALA	2496	31.775	5.355	36.636	1.00	17.44
ATOM	16682	N	PHE	2497	30.181	4.018	36.014	1.00	17.32
ATOM	16683	CA	PHE	2497	30.215	5.104	36.033	1.00	16.32
ATOM	16684	B	PHE	2497	30.777	4.629	36.860	1.00	16.77
ATOM	16685	G	PHE	2497	30.109	3.944	36.781	1.00	16.68
ATOM	16686	D1	PHE	2497	30.023	4.260	36.783	1.00	17.65
ATOM	16687	D2	PHE	2497	30.453	2.976	36.832	1.00	19.65
ATOM	16688	E1	PHE	2497	30.264	3.626	36.834	1.00	18.78
ATOM	16689	E2	PHE	2497	30.686	2.334	36.756	1.00	18.10
ATOM	16690	Z	PHE	2497	30.594	2.680	36.831	1.00	18.48
ATOM	16691	PHE	PHE	2497	30.827	5.619	36.768	1.00	18.69
ATOM	16692	O	PHE	2497	30.616	6.872	36.761	1.00	18.62
ATOM	16693	N	GLU	2498	31.860	4.753	36.614	1.00	17.61
ATOM	16694	CA	GLU	2498	30.474	5.111	36.764	1.00	18.00
ATOM	16695	B	GLU	2498	29.635	5.854	36.162	1.00	21.68
ATOM	16696	CG	GLU	2498	29.113	4.090	36.856	1.00	20.62
ATOM	16697	D	GLU	2498	29.165	4.785	36.832	1.00	30.35
ATOM	16698	OE1	GLU	2498	29.120	4.628	36.736	1.00	37.89
ATOM	16699	OE2	GLU	2498	29.156	5.469	36.735	1.00	38.72
ATOM	16700	O	GLU	2498	29.889	5.947	36.199	1.00	18.47
ATOM	16701	O	GLU	2498	29.368	7.049	36.181	1.00	18.38
ATOM	16702	N	ASN	2499	29.954	5.413	36.711	1.00	18.25
ATOM	16703	CA	ASN	2499	29.392	6.105	36.868	1.00	18.15
ATOM	16704	CB	ASN	2499	29.335	5.157	36.770	1.00	18.68
ATOM	16705	CG	ASN	2499	28.385	3.957	36.879	1.00	18.41
ATOM	16706	OD1	ASN	2499	27.309	4.278	36.869	1.00	21.49
ATOM	16707	OD2	ASN	2499	28.767	2.821	36.883	1.00	18.16
ATOM	16708	O	ASN	2499	30.125	7.369	36.715	1.00	18.51
ATOM	16709	O	ASN	2499	29.513	8.347	36.723	1.00	18.86
ATOM	16710	N	ALA	2500	31.423	7.440	36.965	1.00	20.06
ATOM	16711	CA	ALA	2500	30.207	8.641	36.739	1.00	19.16
ATOM	16712	CB	ALA	2500	31.694	8.367	36.943	1.00	19.94
ATOM	16713	C	ALA	2500	31.748	9.734	36.784	1.00	18.15
ATOM	16714	O	ALA	2500	31.472	10.898	36.635	1.00	18.34
ATOM	16715	N	ALA	2501	30.652	3.389	36.904	1.00	17.77
ATOM	16716	CA	ALA	2501	31.229	10.359	36.741	1.00	19.26
ATOM	16717	CB	ALA	2501	31.220	4.670	36.608	1.00	18.19
ATOM	16718	C	ALA	2501	30.856	10.805	36.303	1.00	18.45
ATOM	16719	O	ALA	2501	30.682	10.070	36.028	1.00	18.38
ATOM	16720	N	THR	2502	30.983	10.031	36.862	1.00	18.35
ATOM	16721	CA	THR	2502	29.805	10.524	36.200	1.00	18.30
ATOM	16722	CB	THR	2502	29.731	9.455	36.721	1.00	18.71
ATOM	16723	OG1	THR	2502	28.335	8.336	36.685	1.00	18.62
ATOM	16724	OG2	THR	2502	29.358	9.869	36.148	1.00	18.69
ATOM	16725	O	THR	2502	29.829	11.534	36.281	1.00	18.73
ATOM	16726	O	THR	2502	28.919	12.532	36.204	1.00	18.10
ATOM	16727	N	VAL	2503	30.341	11.335	37.301	1.00	18.73
ATOM	16728	CA	VAL	2503	29.582	10.780	38.413	1.00	18.12
ATOM	16729	CB	VAL	2503	29.334	11.588	39.565	1.00	21.39
ATOM	16730	CG1	VAL	2503	29.985	12.604	40.454	1.00	20.41
ATOM	16731	CG2	VAL	2503	29.365	10.712	40.355	1.00	18.83
ATOM	16732	C	VAL	2503	29.531	13.541	37.962	1.00	18.60
ATOM	16733	O	VAL	2503	29.849	14.449	38.435	1.00	18.84
ATOM	16734	N	MET	2504	30.260	13.362	37.037	1.00	18.34
ATOM	16735	CA	MET	2504	31.076	14.471	36.499	1.00	19.37
ATOM	16736	CB	MET	2504	30.011	13.958	35.868	1.00	17.55
ATOM	16737	CG	MET	2504	30.134	13.157	36.438	1.00	18.17

ATOM	16738	SD	MET	2504	34.195	14.200	37.555	1.00	33.58
ATOM	16739	CE	MET	2504	35.397	14.833	36.400	1.00	29.91
ATOM	16740	C	MET	2504	30.138	15.357	35.623	1.00	19.08
ATOM	16741	O	MET	2504	30.170	16.573	35.755	1.00	16.51
ATOM	16742	N	ARG	2505	29.341	14.757	34.738	1.00	18.53
ATOM	16747	CA	ARG	2505	28.476	15.553	33.883	1.00	19.62
ATOM	16744	CB	ARG	2505	27.747	14.672	33.853	1.00	19.49
ATOM	16745	CG	ARG	2505	28.673	15.917	33.882	1.00	22.49
ATOM	16746	CD	ARG	2505	27.903	15.299	33.715	1.00	23.75
ATOM	16747	NE	ARG	2505	28.768	17.214	34.983	1.00	25.72
ATOM	16748	CZ	ARG	2505	28.734	17.615	35.768	1.00	24.59
ATOM	16749	NH1	ARG	2505	27.997	16.436	34.261	1.00	22.81
ATOM	16750	NH2	ARG	2505	29.501	16.197	34.369	1.00	26.75
ATOM	16751	C	ARG	2505	27.451	16.198	34.728	1.00	17.69
ATOM	16752	O	ARG	2505	26.951	15.351	34.327	1.00	18.42
ATOM	16753	N	ALA	2506	27.145	15.755	34.907	1.00	17.09
ATOM	16754	CA	ALA	2506	26.154	16.363	36.800	1.00	18.48
ATOM	16755	CB	ALA	2506	25.654	15.325	37.792	1.00	17.17
ATOM	16756	C	ALA	2506	26.715	17.580	37.631	1.00	18.25
ATOM	16757	O	ALA	2506	25.957	18.198	37.165	1.00	18.73
ATOM	16758	N	GLY	2507	28.071	17.801	37.447	1.00	18.33
ATOM	16759	CA	GLY	2507	28.631	18.958	38.098	1.00	17.33
ATOM	16760	C	GLY	2507	29.873	18.732	38.843	1.00	26.87
ATOM	16761	O	GLY	2507	30.757	19.609	39.715	1.00	26.50
ATOM	16762	N	ALA	2508	30.187	17.478	39.738	1.00	20.73
ATOM	16767	CA	ALA	2508	31.134	17.197	40.001	1.00	19.08
ATOM	16764	CB	ALA	2508	31.218	19.748	40.926	1.00	18.47
ATOM	16765	C	ALA	2508	31.679	17.481	40.847	1.00	18.05
ATOM	16766	O	ALA	2508	32.776	17.351	40.174	1.00	18.04
ATOM	16767	N	ASN	2509	33.671	17.889	40.105	1.00	19.09
ATOM	16768	CA	ASN	2509	34.981	18.184	40.923	1.00	18.35
ATOM	16769	CB	ASN	2509	35.657	19.401	40.185	1.00	21.75
ATOM	16770	CG	ASN	2509	34.887	20.675	39.865	1.00	18.73
ATOM	16771	CD1	ASN	2509	34.710	21.074	39.748	1.00	17.39
ATOM	16772	ND2	ASN	2509	34.414	21.398	40.957	1.00	18.50
ATOM	16773	C	ASN	2509	35.951	17.000	40.756	1.00	18.28
ATOM	16774	O	ASN	2509	36.841	16.777	39.395	1.00	18.41
ATOM	16775	N	THR	2510	35.623	16.148	41.513	1.00	17.39
ATOM	16776	CA	THR	2510	36.438	15.111	41.167	1.00	19.43
ATOM	16777	CB	THR	2510	37.476	15.577	41.131	1.00	18.30
ATOM	16778	CG	THR	2510	38.477	14.514	41.759	1.00	21.30
ATOM	16779	SD	THR	2510	39.634	15.770	41.745	1.00	21.81
ATOM	16780	CE	THR	2510	41.656	15.618	41.863	1.00	24.62
ATOM	16781	C	MET	2510	35.576	14.000	41.184	1.00	26.13
ATOM	16782	O	MET	2510	34.535	14.188	41.327	1.00	18.95
ATOM	16783	N	VAL	2511	36.047	12.785	41.665	1.00	21.21
ATOM	16784	CA	VAL	2511	35.131	11.626	41.115	1.00	20.05
ATOM	16785	CB	VAL	2511	35.129	10.986	41.323	1.00	23.58
ATOM	16786	CG1	VAL	2511	34.633	9.304	41.561	1.00	26.75
ATOM	16787	CG2	VAL	2511	34.315	11.146	39.905	1.00	23.78
ATOM	16788	C	VAL	2511	36.075	10.991	41.347	1.00	19.93
ATOM	16789	O	VAL	2511	37.267	10.916	41.865	1.00	18.34
ATOM	16790	N	LYS	2512	35.268	10.547	41.361	1.00	17.54
ATOM	16791	CA	LYS	2512	35.878	9.902	41.115	1.00	18.95
ATOM	16792	CB	LYS	2512	35.473	10.638	40.880	1.00	19.77
ATOM	16793	CG	LYS	2512	36.054	9.979	40.944	1.00	21.49
ATOM	16794	CD	LYS	2512	36.133	10.935	40.333	1.00	21.09
ATOM	16795	CE	LYS	2512	34.933	11.031	39.024	1.00	23.73
ATOM	16796	NE	LYS	2512	34.467	9.779	39.556	1.00	21.84
ATOM	16797	C	LYS	2512	35.407	8.432	41.623	1.00	19.54
ATOM	16798	O	LYS	2512	37.119	8.137	40.525	1.00	23.01
ATOM	16799	N	ILE	2513	36.573	7.335	41.817	1.00	17.53
ATOM	16800	CA	ILE	2513	36.083	6.717	40.933	1.00	17.40
ATOM	16801	CB	ILE	2513	36.447	5.384	41.637	1.00	17.97
ATOM	16802	CG2	ILE	2513	35.516	5.336	43.433	1.00	17.02
ATOM	16803	CG1	ILE	2513	37.696	5.654	41.213	1.00	18.73
ATOM	16804	CD1	ILE	2513	38.353	4.774	42.946	1.00	18.72
ATOM	16805	C	ILE	2513	36.849	5.131	47.081	1.00	18.41
ATOM	16806	O	ILE	2513	37.994	5.338	47.353	1.00	18.45
ATOM	16807	N	GLU	2514	36.204	4.348	47.765	1.00	18.60
ATOM	16808	CA	GLU	2514	36.776	3.361	48.922	1.00	18.49
ATOM	16809	CB	GLU	2514	35.862	3.542	48.925	1.00	19.81
ATOM	16810	CG	GLU	2514	34.827	4.743	50.360	1.00	20.46
ATOM	16811	CD	GLU	2514	33.631	4.347	51.222	1.00	21.36
ATOM	16812	CE1	GLU	2514	35.542	3.177	51.634	1.00	22.24
ATOM	16813	CE2	GLU	2514	35.765	5.312	51.484	1.00	24.56
ATOM	16814	C	GLU	2514	37.512	3.566	48.571	1.00	19.65

ATOM	16815	O	GLU	2514	37.045	1.777	47.755	1.00	18.14
ATOM	16816	N	GLY	2515	38.665	2.339	49.189	1.00	20.64
ATOM	16817	CA	GLY	2515	39.389	1.117	48.896	1.00	20.29
ATOM	16818	C	GLY	2515	40.890	1.188	48.808	1.00	19.74
ATOM	16819	O	GLY	2515	41.893	2.371	48.501	1.00	18.88
ATOM	16820	N	GLY	2516	41.807	0.198	49.065	1.00	19.47
ATOM	16821	CA	GLY	2516	43.052	0.124	49.637	1.00	18.59
ATOM	16822	C	GLY	2516	43.831	-0.132	49.701	1.00	18.48
ATOM	16823	O	GLY	2516	43.141	-0.303	49.609	1.00	17.54
ATOM	16824	N	GLU	2517	44.721	-0.955	47.769	1.00	20.76
ATOM	16825	CA	GLU	2517	45.467	-1.741	46.580	1.00	23.29
ATOM	16826	CB	GLU	2517	46.635	-2.742	46.974	1.00	25.23
ATOM	16827	CG	GLU	2517	47.689	-2.380	45.888	1.00	32.03
ATOM	16828	CD	GLU	2517	48.933	-3.090	46.367	1.00	36.09
ATOM	16829	OE1	GLU	2517	49.857	-3.800	47.579	1.00	38.84
ATOM	16830	OE2	GLU	2517	49.008	-2.445	47.109	1.00	37.39
ATOM	16831	C	GLU	2517	44.676	-1.992	45.445	1.00	23.15
ATOM	16832	O	GLU	2517	45.079	-1.892	44.287	1.00	21.58
ATOM	16833	N	PEP	2518	43.160	-2.382	45.749	1.00	21.67
ATOM	16834	CA	PEP	2518	42.791	-1.192	44.681	1.00	21.53
ATOM	16835	CB	PEP	2518	41.619	-4.110	44.143	1.00	24.31
ATOM	16836	CG	PEP	2518	40.171	-5.005	43.814	1.00	29.10
ATOM	16837	CH2	PEP	2518	39.171	-4.947	44.143	1.00	31.36
ATOM	16838	CH3	PEP	2518	38.166	-4.172	44.078	1.00	23.70
ATOM	16839	CH3	PEP	2518	38.797	-3.108	43.837	1.00	32.85
ATOM	16840	CD1	PEP	2518	40.850	-4.874	47.107	1.00	35.01
ATOM	16841	NE1	PEP	2518	39.147	-2.116	47.166	1.00	34.49
ATOM	16842	C22	TRF	2518	37.199	-1.710	47.711	1.00	31.61
ATOM	16843	C23	TRF	2518	37.141	-0.105	48.505	1.00	33.81
ATOM	16844	CH2	TRF	2518	36.165	-1.883	44.446	1.00	20.90
ATOM	16845	C	TRF	2518	42.167	-1.182	48.666	1.00	21.18
ATOM	16846	O	TRF	2518	41.171	-2.001	47.165	1.00	24.23
ATOM	16847	N	LEU	2519	42.137	-1.116	44.643	1.00	31.95
ATOM	16848	CA	LEU	2519	41.104	0.100	43.111	1.00	19.59
ATOM	16849	CB	LEU	2519	41.118	1.110	43.613	1.00	19.89
ATOM	16850	CG	LEU	2519	39.771	0.601	41.513	1.00	30.95
ATOM	16851	CD1	LEU	2519	39.734	1.107	40.517	1.00	30.03
ATOM	16852	CD2	LEU	2519	38.721	0.100	40.519	1.00	19.11
ATOM	16853	C	LEU	2519	42.115	0.104	43.102	1.00	20.97
ATOM	16854	O	LEU	2519	42.127	1.116	41.414	1.00	20.68
ATOM	16855	N	VAL	2520	44.117	0.601	42.413	1.00	19.49
ATOM	16856	CA	VAL	2520	43.124	0.105	41.612	1.00	18.98
ATOM	16857	CB	VAL	2520	46.511	0.172	41.864	1.00	19.21
ATOM	16858	CG1	VAL	2520	47.524	0.609	41.815	1.00	20.17
ATOM	16859	CG2	VAL	2520	47.171	0.113	43.762	1.00	21.65
ATOM	16860	C	VAL	2520	44.177	1.110	41.116	1.00	18.51
ATOM	16861	O	VAL	2520	44.781	1.119	39.633	1.00	18.35
ATOM	16862	N	GLU	2521	44.471	-0.107	39.133	1.00	17.61
ATOM	16863	CA	GLU	2521	44.154	-0.103	38.163	1.00	21.27
ATOM	16864	CB	GLU	2521	43.779	-1.348	37.729	1.00	25.74
ATOM	16865	CG	GLU	2521	43.404	-1.768	36.761	1.00	31.81
ATOM	16866	CD	GLU	2521	43.134	-3.109	35.856	1.00	35.80
ATOM	16867	OE1	GLU	2521	41.803	-4.103	36.408	1.00	37.34
ATOM	16868	OE2	GLU	2521	41.471	-3.700	31.935	1.00	34.34
ATOM	16869	C	GLU	2521	43.637	0.942	37.828	1.00	14.71
ATOM	16870	O	GLU	2521	43.137	1.101	36.879	1.00	14.47
ATOM	16871	N	THR	2522	41.167	0.109	33.611	1.00	14.71
ATOM	16872	CA	THR	2522	40.834	1.109	38.360	1.00	17.66
ATOM	16873	CB	THR	2522	39.896	1.106	39.741	1.00	17.57
ATOM	16874	CG1	THR	2522	39.427	0.107	39.182	1.00	14.32
ATOM	16875	CG2	THR	2522	38.481	1.109	39.074	1.00	16.11
ATOM	16876	C	THR	2522	41.132	1.106	38.469	1.00	17.03
ATOM	16877	O	THR	2522	40.808	1.109	37.668	1.00	16.73
ATOM	16878	N	VAL	2523	43.060	1.100	39.451	1.00	18.90
ATOM	16879	CA	VAL	2523	43.468	1.104	39.114	1.00	18.66
ATOM	16880	CB	VAL	2523	43.195	1.193	40.910	1.00	19.35
ATOM	16881	CG1	VAL	2523	43.579	1.195	41.011	1.00	20.95
ATOM	16882	CG2	VAL	2523	42.442	1.193	42.116	1.00	18.48
ATOM	16883	C	VAL	2523	43.145	1.193	38.411	1.00	18.19
ATOM	16884	O	VAL	2523	43.141	0.176	37.851	1.00	18.31
ATOM	16885	N	GLN	2524	44.109	1.163	38.637	1.00	14.92
ATOM	16886	CA	GLN	2524	45.174	1.194	36.903	1.00	19.97
ATOM	16887	CB	GLN	2524	46.169	1.161	36.109	1.00	21.97
ATOM	16888	CG	GLN	2524	47.125	1.162	37.761	1.00	28.49
ATOM	16889	CD	GLN	2524	48.101	2.155	37.421	1.00	32.41
ATOM	16890	OE1	GLN	2524	47.111	1.273	36.109	1.00	34.93
ATOM	16891	NE1	GLN	2524	46.167	1.161	35.117	1.00	31.11

ATOM	16892	C	GLN	2524	44.359	1.153	35.648	1.00	20.47
ATOM	16893	O	GLN	2524	44.572	1.146	34.950	1.00	19.34
ATOM	16894	N	MET	2525	43.420	1.258	35.360	1.00	19.30
ATOM	16895	CA	MET	2525	42.600	1.385	34.163	1.00	20.94
ATOM	16896	CB	MET	2525	41.853	1.076	33.908	1.00	20.76
ATOM	16897	CG	MET	2525	42.796	1.041	33.515	1.00	22.97
ATOM	16898	SD	MET	2525	41.950	0.739	33.211	1.00	25.68
ATOM	16899	CE	MET	2525	41.613	0.585	31.487	1.00	26.32
ATOM	16900	C	MET	2525	41.628	0.558	34.213	1.00	21.37
ATOM	16901	O	MET	2525	41.439	0.272	33.208	1.00	21.66
ATOM	16902	N	LEU	2526	41.644	0.808	35.335	1.00	21.24
ATOM	16903	CA	LEU	2526	40.119	0.995	35.103	1.00	20.86
ATOM	16904	CB	LEU	2526	39.507	0.964	36.900	1.00	17.52
ATOM	16905	CG	LEU	2526	38.294	0.075	37.149	1.00	16.74
ATOM	16906	CD1	LEU	2526	37.996	0.041	36.641	1.00	15.92
ATOM	16907	CD2	LEU	2526	37.695	0.006	36.275	1.00	16.80
ATOM	16908	C	LEU	2526	40.878	0.011	35.203	1.00	21.10
ATOM	16909	O	LEU	2526	41.404	0.114	34.546	1.00	21.06
ATOM	16910	N	THR	2527	42.649	0.751	35.840	1.00	22.08
ATOM	16911	CA	THR	2527	41.875	0.555	35.735	1.00	24.24
ATOM	16912	CB	THR	2527	44.186	0.419	36.521	1.00	24.59
ATOM	16913	CD1	THR	2527	41.878	0.213	35.914	1.00	27.58
ATOM	16914	CD2	THR	2527	41.661	10.866	36.534	1.00	27.69
ATOM	16915	C	THR	2527	43.117	0.283	34.276	1.00	25.83
ATOM	16916	O	THR	2527	42.661	11.010	33.838	1.00	26.77
ATOM	16917	N	GLU	2528	43.639	0.888	33.529	1.00	27.93
ATOM	16918	CA	GLU	2528	44.641	0.127	32.108	1.00	28.80
ATOM	16919	CB	GLU	2528	44.811	0.345	31.558	1.00	31.80
ATOM	16920	CD	GLU	2528	43.991	0.007	31.771	1.00	31.34
ATOM	16921	CE	GLU	2528	44.816	0.567	30.731	1.00	34.95
ATOM	16922	OE1	GLU	2528	45.787	0.457	29.637	1.00	38.89
ATOM	16923	OE2	GLU	2528	44.539	4.505	31.137	1.00	31.86
ATOM	16924	C	GLU	2528	42.817	0.409	31.147	1.00	28.13
ATOM	16925	O	GLU	2528	42.971	0.806	30.131	1.00	28.24
ATOM	16926	N	ARG	2529	41.674	0.174	31.737	1.00	28.80
ATOM	16927	CA	ARG	2529	40.585	0.431	31.669	1.00	28.76
ATOM	16928	CB	ARG	2529	39.410	0.230	31.215	1.00	26.83
ATOM	16929	CG	ARG	2529	39.946	0.114	30.411	1.00	26.01
ATOM	16930	CD	ARG	2529	39.231	0.137	30.276	1.00	28.08
ATOM	16931	NE	ARG	2529	39.717	4.615	30.015	1.00	24.06
ATOM	16932	C	ARG	2529	40.990	4.180	30.641	1.00	26.03
ATOM	16933	NH1	ARG	2529	41.874	4.789	30.835	1.00	28.19
ATOM	16934	NH2	ARG	2529	41.866	0.141	29.175	1.00	24.57
ATOM	16935	C	ARG	2529	39.775	1.115	31.130	1.00	28.54
ATOM	16936	O	ARG	2529	38.475	10.817	31.465	1.00	28.70
ATOM	16937	N	ALA	2530	40.565	11.667	32.061	1.00	28.89
ATOM	16938	CA	ALA	2530	40.015	1.890	32.417	1.00	26.35
ATOM	16939	CB	ALA	2530	39.213	18.640	31.872	1.00	28.14
ATOM	16940	C	ALA	2530	39.196	11.660	33.737	1.00	28.14
ATOM	16941	O	ALA	2530	38.291	11.876	33.911	1.00	25.02
ATOM	16942	N	VAL	2531	39.409	11.434	34.565	1.00	18.38
ATOM	16943	CA	VAL	2531	38.655	11.097	35.849	1.00	23.34
ATOM	16944	CB	VAL	2531	37.863	10.617	35.933	1.00	18.38
ATOM	16945	CG1	VAL	2531	37.901	10.605	37.117	1.00	21.93
ATOM	16946	CG2	VAL	2531	36.874	10.130	34.731	1.00	28.60
ATOM	16947	C	VAL	2531	39.343	11.668	37.009	1.00	25.03
ATOM	16948	O	VAL	2531	40.133	10.669	37.163	1.00	21.71
ATOM	16949	N	PRO	2532	39.618	13.137	37.215	1.00	21.24
ATOM	16950	CD	PRO	2532	38.001	14.412	37.439	1.00	27.52
ATOM	16951	CA	PRO	2532	40.480	13.159	38.334	1.00	21.45
ATOM	16952	CB	PRO	2532	40.414	13.757	39.138	1.00	21.66
ATOM	16953	CG	PRO	2532	39.330	13.133	38.738	1.00	21.65
ATOM	16954	C	PRO	2532	39.836	13.321	40.037	1.00	21.12
ATOM	16955	O	PRO	2532	38.633	13.316	40.235	1.00	21.74
ATOM	16956	N	VAL	2533	40.673	11.673	40.773	1.00	18.42
ATOM	16957	CA	VAL	2533	40.106	10.802	41.677	1.00	11.80
ATOM	16958	CB	VAL	2533	40.573	9.319	41.336	1.00	18.15
ATOM	16959	CG1	VAL	2533	40.213	8.462	42.735	1.00	18.03
ATOM	16960	CG2	VAL	2533	40.134	8.932	40.263	1.00	18.13
ATOM	16961	C	VAL	2533	40.696	11.181	43.220	1.00	18.90
ATOM	16962	O	VAL	2533	41.444	11.587	43.389	1.00	18.13
ATOM	16963	N	TYR	2534	39.813	11.344	44.204	1.00	17.65
ATOM	16964	CA	TYR	2534	40.143	11.296	45.608	1.00	17.23
ATOM	16965	CB	TYR	2534	39.125	12.350	46.259	1.00	16.92
ATOM	16966	CG	TYR	2534	39.445	12.974	48.025	1.00	17.39
ATOM	16967	C	TYR	2534	40.038	9.927	46.265	1.00	17.85
ATOM	16968	O	TYR	2534	40.064	9.158	46.135	1.00	20.42

ATCM	16969	N	GLY	2535	41.167	9.481	46.917	1.00	16.91
ATCM	16970	CA	GLY	2535	41.084	8.192	47.580	1.00	17.14
ATCM	16971	C	GLY	2535	40.382	8.290	48.921	1.00	18.33
ATCM	16972	O	GLY	2535	40.841	9.388	49.862	1.00	19.44
ATCM	16973	N	HIS	2536	40.148	7.149	49.563	1.00	17.14
ATCM	16974	CA	HIS	2536	39.814	7.106	50.863	1.00	18.81
ATCM	16975	CB	HIS	2536	37.980	7.162	50.683	1.00	20.21
ATCM	16976	CG	HIS	2536	37.707	7.331	51.956	1.00	18.15
ATCM	16977	CD2	HIS	2536	37.147	7.091	53.248	1.00	19.19
ATCM	16978	ND1	HIS	2536	35.897	7.761	51.971	1.00	20.49
ATCM	16979	CE1	HIS	2536	35.413	5.777	53.215	1.00	19.49
ATCM	16980	NE2	HIS	2536	36.438	7.473	54.017	1.00	20.14
ATCM	16981	C	HIS	2536	39.817	5.823	51.575	1.00	18.66
ATCM	16982	O	HIS	2536	39.620	4.717	51.123	1.00	19.86
ATCM	16983	N	LEU	2537	40.679	5.784	52.686	1.00	18.70
ATCM	16984	CA	LEU	2537	41.127	4.855	53.455	1.00	17.87
ATCM	16985	CB	LEU	2537	42.660	4.771	53.538	1.00	19.11
ATCM	16986	CG	LEU	2537	43.219	4.887	51.977	1.00	18.70
ATCM	16987	CD1	LEU	2537	44.337	4.937	51.993	1.00	19.41
ATCM	16988	CE2	LEU	2537	42.881	2.749	51.611	1.00	17.11
ATCM	16989	C	LEU	2537	40.701	4.837	54.364	1.00	18.19
ATCM	16990	O	LEU	2537	40.777	6.116	55.571	1.00	19.11
ATCM	16991	N	GLY	2538	40.860	8.401	55.677	1.00	19.13
ATCM	16992	CA	GLY	2538	40.678	7.882	55.678	1.00	18.82
ATCM	16993	C	GLY	2538	39.735	7.133	57.241	1.00	21.82
ATCM	16994	O	GLY	2538	39.515	7.111	56.884	1.00	20.12
ATCM	16995	N	LEU	2539	38.894	7.110	57.919	1.00	21.88
ATCM	16996	CA	LEU	2539	37.679	7.170	58.193	1.00	21.62
ATCM	16997	CB	LEU	2539	36.478	4.786	59.408	1.00	20.08
ATCM	16998	CG	LEU	2539	35.194	5.109	60.206	1.00	20.11
ATCM	16999	CD1	LEU	2539	34.806	4.716	61.377	1.00	20.15
ATCM	17000	CE2	LEU	2539	34.294	4.762	59.389	1.00	20.37
ATCM	17001	C	LEU	2539	36.211	5.830	58.977	1.00	21.01
ATCM	17002	O	LEU	2539	35.685	4.711	58.297	1.00	20.68
ATCM	17003	N	THR	2540	36.139	7.839	58.010	1.00	21.75
ATCM	17004	CA	THR	2540	35.738	7.110	54.801	1.00	21.60
ATCM	17005	CB	THR	2540	35.691	7.137	55.509	1.00	21.72
ATCM	17006	CG1	THR	2540	36.812	6.782	51.993	1.00	21.48
ATCM	17007	CG2	THR	2540	37.188	6.135	53.243	1.00	20.38
ATCM	17008	C	THR	2540	33.934	3.774	55.072	1.00	21.43
ATCM	17009	O	THR	2540	33.620	4.711	54.942	1.00	21.81
ATCM	17010	N	PRO	2541	32.997	3.183	55.493	1.00	21.67
ATCM	17011	CD	PRO	2541	33.189	4.741	55.730	1.00	21.28
ATCM	17012	CA	PRO	2541	32.195	3.165	55.711	1.00	21.41
ATCM	17013	CB	PRO	2541	30.907	4.343	55.801	1.00	20.13
ATCM	17014	CG	PRO	2541	32.817	5.420	54.939	1.00	18.14
ATCM	17015	C	PRO	2541	30.866	3.112	54.777	1.00	21.03
ATCM	17016	O	PRO	2541	29.994	4.389	55.212	1.00	21.27
ATCM	17017	N	GLN	2542	31.241	3.196	55.194	1.00	21.17
ATCM	17018	CA	GLN	2542	30.893	4.780	54.532	1.00	20.34
ATCM	17019	CB	GLN	2542	31.081	4.742	53.126	1.00	19.49
ATCM	17020	CG	GLN	2542	30.468	3.116	50.462	1.00	18.10
ATCM	17021	CD	GLN	2542	31.067	3.112	49.630	1.00	19.09
ATCM	17022	OE1	GLN	2542	31.534	2.172	48.339	1.00	20.78
ATCM	17023	NE1	GLN	2542	31.014	4.735	48.686	1.00	18.53
ATCM	17024	C	GLN	2542	30.897	-0.166	52.982	1.00	20.22
ATCM	17025	O	GLN	2542	30.106	-1.167	52.659	1.00	21.15
ATCM	17026	N	SER	2543	32.005	-0.181	53.835	1.00	21.08
ATCM	17027	CA	SER	2543	31.382	-1.115	54.032	1.00	20.09
ATCM	17028	CB	SER	2543	31.933	-1.114	53.925	1.00	22.29
ATCM	17029	CG	SER	2543	31.275	-2.117	52.353	1.00	22.70
ATCM	17030	C	SER	2543	32.019	-2.106	53.341	1.00	20.18
ATCM	17031	O	SER	2543	32.533	-2.108	54.162	1.00	19.41
ATCM	17032	N	VAL	2544	31.033	-1.118	54.777	1.00	13.11
ATCM	17033	CA	VAL	2544	30.611	-1.191	53.455	1.00	20.13
ATCM	17034	CB	VAL	2544	29.416	-0.173	53.774	1.00	21.04
ATCM	17035	CG1	VAL	2544	28.212	-0.312	54.367	1.00	22.69
ATCM	17036	CG2	VAL	2544	29.031	-0.615	54.235	1.00	24.32
ATCM	17037	C	VAL	2544	30.371	-2.347	53.775	1.00	19.12
ATCM	17038	O	VAL	2544	30.613	-3.143	54.354	1.00	17.37
ATCM	17039	N	ASN	2545	29.614	-3.133	54.835	1.00	20.26
ATCM	17040	CA	ASN	2545	29.268	-4.123	57.041	1.00	21.25
ATCM	17041	CB	ASN	2545	28.350	-5.183	55.931	1.00	20.37
ATCM	17042	CG	ASN	2545	27.099	-4.183	55.969	1.00	19.71
ATCM	17043	CD	ASN	2545	26.715	-4.117	54.981	1.00	19.36
ATCM	17044	C	ASN	2545	26.755	-3.307	54.997	1.00	20.75
ATCM	17045	O	ASN	2545	26.521	-5.878	57.161	1.00	22.83

ATOM	17046	O	ASN	2545	30.499	-6.877	57.726	1.00	23.72
ATOM	17047	N	ILE	2546	31.594	-5.395	56.443	1.00	23.99
ATOM	17048	CA	ILE	2546	32.859	-6.154	56.447	1.00	24.98
ATOM	17049	CB	ILE	2546	32.842	-5.623	55.379	1.00	26.25
ATOM	17050	CG2	ILE	2546	35.189	-6.332	55.529	1.00	24.01
ATOM	17051	CG1	ILE	2546	33.295	-5.852	53.968	1.00	26.29
ATOM	17052	CD1	ILE	2546	27.166	-7.236	53.587	1.00	15.88
ATOM	17053	C	ILE	2546	32.485	-6.028	57.827	1.00	26.31
ATOM	17054	O	ILE	2546	33.852	-7.027	58.445	1.00	16.76
ATOM	17055	N	PHE	2547	33.606	-4.794	58.209	1.00	26.71
ATOM	17056	CA	PHE	2547	34.213	-4.154	59.315	1.00	29.32
ATOM	17057	CB	PHE	2547	34.482	-3.033	59.360	1.00	29.87
ATOM	17058	CG	PHE	2547	35.218	-2.461	58.779	1.00	32.32
ATOM	17059	CD1	PHE	2547	36.474	-2.939	58.158	1.00	23.03
ATOM	17060	CD2	PHE	2547	34.782	-1.251	58.054	1.00	32.76
ATOM	17061	CE1	PHE	2547	27.104	-2.342	57.729	1.00	32.42
ATOM	17062	CE2	PHE	2547	35.504	-0.647	57.024	1.00	32.54
ATOM	17063	CZ	PHE	2547	36.719	-1.195	56.612	1.00	32.74
ATOM	17064	C	PHE	2547	33.375	-5.011	60.756	1.00	30.19
ATOM	17065	O	PHE	2547	33.814	-5.329	61.337	1.00	31.92
ATOM	17066	N	GLY	2548	21.630	-3.067	60.113	1.00	30.16
ATOM	17067	CA	GLY	2548	21.001	-3.483	61.541	1.00	30.22
ATOM	17068	C	GLY	2548	10.665	-4.154	62.767	1.00	31.76
ATOM	17069	O	GLY	2548	10.184	-4.422	63.723	1.00	31.19
ATOM	17070	N	GLY	2549	30.711	-3.166	61.753	1.00	31.69
ATOM	17071	CA	GLY	2549	30.861	-1.882	62.458	1.00	31.70
ATOM	17072	C	GLY	2549	31.736	-0.764	62.785	1.00	31.81
ATOM	17073	O	GLY	2549	37.231	-0.947	62.773	1.00	31.10
ATOM	17074	N	TYR	2550	32.131	0.394	62.703	1.00	31.02
ATOM	17075	CA	TYR	2550	32.935	1.425	62.467	1.00	33.59
ATOM	17076	CB	TYR	2550	32.125	2.827	62.156	1.00	34.84
ATOM	17077	CG	TYR	2550	30.884	2.806	61.471	1.00	36.99
ATOM	17078	CD1	TYR	2550	28.867	2.207	61.400	1.00	37.25
ATOM	17079	CE1	TYR	2550	27.331	2.140	60.873	1.00	38.43
ATOM	17080	CD2	TYR	2550	30.137	1.119	60.183	1.00	37.03
ATOM	17081	CE2	TYR	2550	29.101	2.211	59.151	1.00	37.75
ATOM	17082	CZ	TYR	2550	27.439	2.651	59.401	1.00	38.27
ATOM	17083	OH	TYR	2550	26.836	2.600	58.671	1.00	36.43
ATOM	17084	C	TYR	2550	31.108	1.764	58.547	1.00	34.84
ATOM	17085	O	TYR	2550	31.413	2.216	54.573	1.00	35.16
ATOM	17086	N	LYS	2551	34.134	0.840	58.309	1.00	32.76
ATOM	17087	CA	LYS	2551	35.139	0.317	54.254	1.00	32.19
ATOM	17088	CB	LYS	2551	31.636	-0.319	54.547	1.00	41.81
ATOM	17089	CG	LYS	2551	34.764	-1.541	54.009	1.00	38.61
ATOM	17090	CD	LYS	2551	34.639	-3.915	55.108	1.00	40.12
ATOM	17091	CE	LYS	2551	35.467	-3.851	53.183	1.00	41.78
ATOM	17092	NZ	LYS	2551	35.862	-5.360	55.396	1.00	44.79
ATOM	17093	C	LYS	2551	36.859	1.438	53.713	1.00	30.37
ATOM	17094	O	LYS	2551	36.788	1.462	51.913	1.00	30.25
ATOM	17095	N	VAL	2552	37.763	1.981	54.613	1.00	29.43
ATOM	17096	CA	VAL	2552	38.530	2.658	54.215	1.00	38.03
ATOM	17097	CB	VAL	2552	39.711	3.274	55.433	1.00	38.11
ATOM	17098	CG1	VAL	2552	40.614	3.632	55.701	1.00	36.74
ATOM	17099	CG2	VAL	2552	38.410	4.304	56.096	1.00	36.18
ATOM	17100	C	VAL	2552	37.712	1.662	55.519	1.00	37.35
ATOM	17101	O	VAL	2552	38.837	0.533	57.393	1.00	36.30
ATOM	17102	N	GLN	2553	40.087	2.384	52.393	1.00	37.37
ATOM	17103	CA	GLN	2553	40.973	1.217	52.629	1.00	39.57
ATOM	17104	CB	GLN	2553	40.023	1.436	50.163	1.00	30.19
ATOM	17105	CG	GLN	2553	40.099	-0.119	59.563	1.00	41.34
ATOM	17106	CD	GLN	2553	39.402	-1.363	59.242	1.00	35.33
ATOM	17107	OE1	GLN	2553	39.286	-0.641	56.533	1.00	51.02
ATOM	17108	NR2	GLN	2553	39.798	-2.333	59.533	1.00	37.74
ATOM	17109	C	GLN	2553	43.419	1.633	51.715	1.00	39.23
ATOM	17110	O	GLN	2553	41.686	2.813	52.152	1.00	39.38
ATOM	17111	N	GLY	2554	43.346	0.337	51.333	1.00	30.12
ATOM	17112	CA	GLY	2554	41.752	1.269	51.326	1.00	31.35
ATOM	17113	C	GLY	2554	45.499	0.751	52.568	1.00	33.25
ATOM	17114	O	GLY	2554	45.730	0.754	51.590	1.00	33.26
ATOM	17115	N	ARG	2555	41.755	0.371	53.632	1.00	37.75
ATOM	17116	CA	ARG	2555	41.350	-0.083	51.851	1.00	34.75
ATOM	17117	CB	ARG	2555	44.253	-0.543	55.818	1.00	61.33
ATOM	17118	CG	ARG	2555	43.809	0.553	56.333	1.00	38.18
ATOM	17119	CD	ARG	2555	43.894	1.304	57.439	1.00	40.08
ATOM	17120	NE	ARG	2555	42.993	2.331	53.030	1.00	39.43
ATOM	17121	CZ	ARG	2555	41.807	2.081	53.580	1.00	40.99
ATOM	17122	NH1	ARG	2555	41.357	0.766	53.633	1.00	41.89

ATOM	17123	NHD	ARG	2555	41.075	-3.079	69.058	1.00	38.37
ATOM	17124	C	ARG	2555	46.310	-1.242	64.581	1.00	34.73
ATOM	17125	O	ARG	2555	45.958	-2.208	62.903	1.00	33.25
ATOM	17126	N	GLY	2556	47.523	-1.140	61.114	1.00	34.00
ATOM	17127	CA	GLY	2556	49.503	-1.194	64.917	1.00	36.38
ATOM	17128	C	GLY	2556	49.469	-1.893	62.784	1.00	36.36
ATOM	17129	O	GLY	2556	49.177	-1.123	61.671	1.00	35.12
ATOM	17130	N	ASP	2557	50.647	-2.505	62.839	1.00	36.48
ATOM	17131	CA	ASP	2557	51.663	-2.287	62.819	1.00	36.99
ATOM	17132	CB	ASP	2557	51.984	-2.931	60.231	1.00	37.69
ATOM	17133	CG	ASP	2557	51.604	-2.261	64.437	1.00	38.08
ATOM	17134	OD1	ASP	2557	51.271	-1.683	64.697	1.00	38.16
ATOM	17135	OD2	ASP	2557	51.454	-1.903	61.111	1.00	38.66
ATOM	17136	C	ASP	2557	51.266	-2.773	61.439	1.00	38.71
ATOM	17137	O	ASP	2557	51.405	-2.643	60.457	1.00	38.12
ATOM	17138	N	GLU	2558	50.777	-4.603	61.356	1.00	35.83
ATOM	17139	CA	GLU	2558	50.381	-4.573	60.674	1.00	37.15
ATOM	17140	CB	GLU	2558	49.895	-6.011	60.242	1.00	40.41
ATOM	17141	CG	GLU	2558	49.778	-6.163	58.928	1.00	44.93
ATOM	17142	CD	GLU	2558	49.811	-5.943	59.618	1.00	47.28
ATOM	17143	OE1	GLU	2558	49.616	-5.793	59.916	1.00	48.73
ATOM	17144	OE2	GLU	2558	49.899	-6.607	59.187	1.00	48.73
ATOM	17145	C	GLU	2558	49.270	-5.543	58.456	1.00	50.03
ATOM	17146	O	GLU	2558	49.344	-5.126	59.280	1.00	54.73
ATOM	17147	N	ALA	2559	49.239	-1.453	60.240	1.00	37.89
ATOM	17148	CA	ALA	2559	49.114	-2.663	59.763	1.00	38.57
ATOM	17149	CB	ALA	2559	49.037	-1.971	60.846	1.00	39.34
ATOM	17150	C	ALA	2559	49.590	-1.274	59.366	1.00	38.34
ATOM	17151	O	ALA	2559	49.110	-0.733	58.728	1.00	37.38
ATOM	17152	N	GLY	2560	49.440	-0.694	60.188	1.00	38.46
ATOM	17153	CA	GLY	2560	49.998	-0.633	60.898	1.00	40.73
ATOM	17154	C	GLY	2560	49.817	-0.671	59.631	1.00	39.93
ATOM	17155	O	GLY	2560	49.684	-1.574	59.811	1.00	45.31
ATOM	17156	N	ASP	2561	51.573	-0.503	59.385	1.00	39.71
ATOM	17157	CA	ASP	2561	51.558	-0.533	59.281	1.00	41.81
ATOM	17158	CB	ASP	2561	51.603	-1.451	59.401	1.00	46.11
ATOM	17159	CG	ASP	2561	51.676	-1.533	59.301	1.00	46.13
ATOM	17160	OD1	ASP	2561	51.901	-0.601	59.744	1.00	47.39
ATOM	17161	OD2	ASP	2561	51.034	-2.173	59.127	1.00	48.83
ATOM	17162	C	ASP	2561	50.771	-0.543	59.621	1.00	49.34
ATOM	17163	O	ASP	2561	51.032	-0.603	59.867	1.00	48.33
ATOM	17164	N	GLN	2562	49.631	-1.351	59.127	1.00	39.61
ATOM	17165	CA	GLN	2562	49.819	-1.611	59.873	1.00	43.73
ATOM	17166	CB	GLN	2562	49.763	-2.631	59.324	1.00	47.83
ATOM	17167	CG	GLN	2562	49.929	-3.083	54.123	1.00	48.73
ATOM	17168	CD	GLN	2562	49.731	-3.733	53.187	1.00	49.94
ATOM	17169	OE1	GLN	2562	49.326	-4.863	50.256	1.00	51.93
ATOM	17170	OE2	GLN	2562	49.966	-3.303	50.696	1.00	49.13
ATOM	17171	C	GLN	2562	48.117	-0.321	59.304	1.00	34.13
ATOM	17172	O	GLN	2562	48.014	-0.053	59.303	1.00	38.09
ATOM	17173	N	LEU	2563	49.638	-0.468	59.448	1.00	39.26
ATOM	17174	CA	LEU	2563	49.939	-1.723	59.161	1.00	34.34
ATOM	17175	CB	LEU	2563	49.331	-2.353	59.337	1.00	34.36
ATOM	17176	CG	LEU	2563	49.034	-2.675	59.681	1.00	38.33
ATOM	17177	CD1	LEU	2563	41.544	-2.465	59.370	1.00	27.30
ATOM	17178	CD2	LEU	2563	41.018	-1.599	59.797	1.00	27.72
ATOM	17179	C	LEU	2563	48.036	-2.707	59.513	1.00	34.33
ATOM	17180	O	LEU	2563	47.633	-3.473	58.619	1.00	37.17
ATOM	17181	N	LEU	2564	49.210	-2.682	59.067	1.00	34.43
ATOM	17182	CA	LEU	2564	50.263	-3.580	59.599	1.00	37.33
ATOM	17183	CB	LEU	2564	51.433	-3.480	59.491	1.00	37.33
ATOM	17184	CG	LEU	2564	52.282	-4.773	59.744	1.00	37.73
ATOM	17185	CD1	LEU	2564	53.533	-4.405	59.340	1.00	38.33
ATOM	17186	CD2	LEU	2564	52.533	-5.535	54.457	1.00	37.63
ATOM	17187	C	LEU	2564	50.633	-3.173	59.163	1.00	27.73
ATOM	17188	O	LEU	2564	50.730	-4.033	59.277	1.00	37.73
ATOM	17189	N	SER	2565	50.838	-1.375	52.969	1.00	27.73
ATOM	17190	CA	SER	2565	51.205	-1.361	51.653	1.00	23.43
ATOM	17191	CB	SER	2565	51.473	-0.143	51.735	1.00	26.37
ATOM	17192	CG	SER	2565	51.998	-0.634	50.523	1.00	34.36
ATOM	17193	O	SER	2565	50.107	-1.645	50.632	1.00	22.74
ATOM	17194	C	SER	2565	50.390	-1.983	49.481	1.00	27.74
ATOM	17195	N	ASP	2566	48.853	-1.500	51.034	1.00	19.33
ATOM	17196	CA	ASP	2566	49.713	-1.753	50.168	1.00	18.33
ATOM	17197	CB	ASP	2566	49.299	-1.335	50.336	1.00	19.36
ATOM	17198	CG	ASP	2566	49.203	-0.174	50.867	1.00	21.73
ATOM	17199	CD	ASP	2566	49.333	-1.883	50.133	1.00	24.33

ATOM	17200	OD2	ASP	2565	45.313	-0.655	51.605	1.00	20.99
ATOM	17201	C	ASP	2565	47.647	1.726	49.785	1.00	18.77
ATOM	17202	C	ASP	2565	47.329	1.560	48.650	1.00	19.96
ATOM	17203	N	ALA	2567	47.945	3.109	50.732	1.00	17.84
ATOM	17204	CA	ALA	2567	47.904	1.136	50.451	1.00	17.61
ATOM	17205	CB	ALA	2567	48.135	0.341	51.731	1.00	18.06
ATOM	17206	C	ALA	2567	48.964	1.894	49.412	1.00	16.53
ATOM	17207	O	ALA	2567	43.705	0.675	48.594	1.00	15.81
ATOM	17208	N	LEU	2568	51.162	1.338	49.580	1.00	19.61
ATOM	17209	CA	LEU	2568	51.232	1.615	48.617	1.00	18.69
ATOM	17210	CB	LEU	2568	52.563	1.047	49.177	1.00	21.56
ATOM	17211	CG	LEU	2568	53.111	1.741	50.379	1.00	22.49
ATOM	17212	CD1	LEU	2568	54.382	3.997	50.917	1.00	25.67
ATOM	17213	CD2	LEU	2568	53.484	2.182	50.661	1.00	24.12
ATOM	17214	C	LEU	2568	53.887	1.011	47.149	1.00	18.91
ATOM	17215	O	LEU	2568	50.118	1.611	46.714	1.00	20.14
ATOM	17216	N	ALA	2569	50.268	1.835	47.754	1.00	18.41
ATOM	17217	CA	ALA	2569	49.892	1.105	46.615	1.00	20.41
ATOM	17218	CB	ALA	2569	49.595	1.738	46.517	1.00	18.95
ATOM	17219	C	ALA	2569	49.830	0.968	45.177	1.00	20.15
ATOM	17220	O	ALA	2569	49.864	1.095	44.054	1.00	18.66
ATOM	17221	N	LEU	2570	49.875	1.006	45.966	1.00	21.11
ATOM	17222	CA	LEU	2570	49.810	1.278	45.925	1.00	20.75
ATOM	17223	CB	LEU	2570	47.718	1.000	46.311	1.00	20.08
ATOM	17224	CG	LEU	2570	44.812	1.476	46.878	1.00	20.76
ATOM	17225	CD1	LEU	2570	49.851	3.996	47.979	1.00	26.64
ATOM	17226	CD2	LEU	2570	44.055	1.966	47.861	1.00	21.93
ATOM	17227	C	LEU	2570	47.401	0.751	44.514	1.00	20.17
ATOM	17228	O	LEU	2570	46.969	1.049	43.774	1.00	19.86
ATOM	17229	N	GLU	2571	48.206	1.163	45.517	1.00	19.16
ATOM	17230	CA	GLU	2571	48.900	1.529	44.656	1.00	20.68
ATOM	17231	CB	GLU	2571	48.965	1.187	46.137	1.00	19.65
ATOM	17232	CG	GLU	2571	51.705	1.014	45.661	1.00	21.18
ATOM	17233	CD	GLU	2571	51.688	1.063	46.756	1.00	22.16
ATOM	17234	OE1	GLU	2571	51.470	1.881	47.113	1.00	21.14
ATOM	17235	OE2	GLU	2571	51.677	1.171	47.553	1.00	21.11
ATOM	17236	C	GLU	2571	49.783	0.171	44.779	1.00	19.31
ATOM	17237	O	GLU	2571	49.678	0.004	44.867	1.00	20.16
ATOM	17238	N	ALA	2572	50.401	1.170	44.137	1.00	20.49
ATOM	17239	CA	ALA	2572	51.265	0.660	43.764	1.00	21.79
ATOM	17240	CB	ALA	2572	51.157	0.473	42.778	1.00	23.41
ATOM	17241	C	ALA	2572	50.347	0.663	41.763	1.00	22.79
ATOM	17242	O	ALA	2572	50.718	0.156	40.279	1.00	20.71
ATOM	17243	N	ALA	2573	49.142	0.995	41.762	1.00	22.14
ATOM	17244	CA	ALA	2573	48.152	0.563	41.668	1.00	21.67
ATOM	17245	CB	ALA	2573	47.063	0.127	41.113	1.00	20.31
ATOM	17246	C	ALA	2573	47.569	0.907	40.625	1.00	20.80
ATOM	17247	O	ALA	2573	47.081	0.746	39.690	1.00	20.47
ATOM	17248	N	GLY	2574	47.615	1.933	40.135	1.00	19.07
ATOM	17249	CA	GLY	2574	47.183	0.167	40.181	1.00	17.90
ATOM	17250	C	GLY	2574	46.141	0.943	41.069	1.00	17.16
ATOM	17251	O	GLY	2574	48.715	11.641	40.161	1.00	17.05
ATOM	17252	N	ALA	2575	45.766	0.170	41.117	1.00	17.09
ATOM	17253	CA	ALA	2575	44.801	10.733	40.187	1.00	19.19
ATOM	17254	CB	ALA	2575	44.644	9.146	40.688	1.00	17.67
ATOM	17255	C	ALA	2575	45.616	11.441	40.478	1.00	20.14
ATOM	17256	O	ALA	2575	46.647	11.726	40.876	1.00	22.35
ATOM	17257	N	GLN	2576	44.731	12.710	41.177	1.00	20.64
ATOM	17258	CA	GLN	2576	45.126	13.448	40.693	1.00	21.20
ATOM	17259	CB	GLN	2576	44.733	14.836	41.167	1.00	24.45
ATOM	17260	CG	GLN	2576	46.126	14.659	41.177	1.00	29.62
ATOM	17261	CD	GLN	2576	44.551	15.337	40.113	1.00	31.74
ATOM	17262	OE1	GLN	2576	44.686	16.659	40.113	1.00	36.20
ATOM	17263	NE2	GLN	2576	43.311	14.671	39.711	1.00	32.65
ATOM	17264	C	GLN	2576	44.322	14.316	40.677	1.00	21.51
ATOM	17265	O	GLN	2576	46.120	15.371	40.113	1.00	19.45
ATOM	17266	N	LEU	2577	43.991	13.519	40.114	1.00	20.67
ATOM	17267	CA	LEU	2577	43.517	13.817	40.113	1.00	21.57
ATOM	17268	CB	LEU	2577	42.267	14.609	40.113	1.00	25.05
ATOM	17269	CG	LEU	2577	42.283	16.133	40.113	1.00	26.27
ATOM	17270	CD1	LEU	2577	40.374	16.718	40.113	1.00	27.14
ATOM	17271	CD2	LEU	2577	42.751	16.976	40.113	1.00	27.72
ATOM	17272	C	LEU	2577	43.280	12.515	40.660	1.00	31.36
ATOM	17273	O	LEU	2577	43.059	11.472	40.113	1.00	32.18
ATOM	17274	N	LEU	2578	43.327	12.171	40.173	1.00	19.22
ATOM	17275	CA	LEU	2578	43.095	11.369	40.691	1.00	19.03
ATOM	17276	CB	LEU	2578	44.403	10.681	40.689	1.00	19.87

ATOM	17277	CG	LEU	2578	44.235	9.475	51.320	1.00	20.24
ATOM	17278	CD1	LEU	2578	47.527	8.343	50.556	1.00	21.15
ATOM	17279	CD2	LEU	2578	47.587	8.983	51.840	1.00	20.62
ATOM	17280	C	LEU	2578	47.721	11.722	51.261	1.00	20.13
ATOM	17281	O	LEU	2578	47.656	12.694	51.947	1.00	20.75
ATOM	17282	N	VAL	2579	47.303	10.924	51.560	1.00	19.83
ATOM	17283	CA	VAL	2579	40.529	11.108	52.777	1.00	18.16
ATOM	17284	CB	VAL	2579	39.000	11.087	52.508	1.00	17.51
ATOM	17285	CG1	VAL	2579	38.230	10.877	53.827	1.00	16.62
ATOM	17286	CG2	VAL	2579	38.569	12.464	51.890	1.00	17.32
ATOM	17287	C	VAL	2579	40.884	9.997	53.720	1.00	19.66
ATOM	17288	O	VAL	2579	40.874	8.797	53.321	1.00	19.81
ATOM	17289	N	LEU	2580	47.232	10.316	54.957	1.00	19.69
ATOM	17290	CA	LEU	2580	47.576	9.357	55.997	1.00	20.13
ATOM	17291	CB	LEU	2580	47.912	9.684	56.657	1.00	21.71
ATOM	17292	CG	LEU	2580	43.154	9.117	56.643	1.00	24.92
ATOM	17293	CD1	LEU	2580	47.722	9.475	56.987	1.00	22.37
ATOM	17294	CD2	LEU	2580	44.027	7.677	55.848	1.00	22.51
ATOM	17295	C	LEU	2580	40.510	9.443	57.067	1.00	19.52
ATOM	17296	O	LEU	2580	47.751	10.316	57.647	1.00	20.13
ATOM	17297	N	GLU	2581	47.840	8.797	57.757	1.00	19.87
ATOM	17298	CA	GLU	2581	47.719	8.313	58.500	1.00	19.88
ATOM	17299	CB	GLU	2581	47.452	7.374	57.611	1.00	20.16
ATOM	17300	CG	GLU	2581	46.189	7.667	58.563	1.00	22.34
ATOM	17301	CD	GLU	2581	43.945	7.137	57.867	1.00	24.52
ATOM	17302	CE1	GLU	2581	47.920	7.777	58.687	1.00	21.81
ATOM	17303	CE2	GLU	2581	47.912	7.749	58.577	1.00	26.76
ATOM	17304	C	GLU	2581	47.974	7.416	59.517	1.00	17.68
ATOM	17305	O	GLU	2581	47.717	6.117	59.787	1.00	18.78
ATOM	17306	N	LYS	2582	47.779	7.983	60.770	1.00	19.73
ATOM	17307	CA	LYS	2582	47.896	7.263	61.957	1.00	19.83
ATOM	17308	CB	LYS	2582	47.865	6.477	62.221	1.00	21.02
ATOM	17309	CG	LYS	2582	46.197	7.671	62.446	1.00	24.12
ATOM	17310	C	LYS	2582	47.091	6.349	62.067	1.00	19.75
ATOM	17311	O	LYS	2582	47.963	5.113	62.772	1.00	21.78
ATOM	17312	N	VAL	2583	47.761	6.974	61.712	1.00	21.07
ATOM	17313	CA	VAL	2583	47.166	6.226	62.241	1.00	23.60
ATOM	17314	CB	VAL	2583	47.717	6.777	60.924	1.00	23.38
ATOM	17315	CG1	VAL	2583	47.590	7.811	60.617	1.00	23.11
ATOM	17316	CG2	VAL	2583	44.609	5.873	61.027	1.00	25.76
ATOM	17317	C	VAL	2583	47.777	6.877	61.387	1.00	22.71
ATOM	17318	O	VAL	2583	47.694	6.073	62.677	1.00	22.61
ATOM	17319	N	PRO	2584	44.132	6.073	64.067	1.00	24.47
ATOM	17320	CA	PRO	2584	47.417	4.682	63.956	1.00	25.43
ATOM	17321	CB	PRO	2584	47.891	6.777	61.167	1.00	24.13
ATOM	17322	CG	PRO	2584	47.745	5.133	63.683	1.00	25.70
ATOM	17323	CD	PRO	2584	47.777	4.377	64.517	1.00	26.77
ATOM	17324	C	PRO	2584	47.708	7.873	64.637	1.00	24.60
ATOM	17325	O	PRO	2584	46.281	7.864	63.545	1.00	25.19
ATOM	17326	N	VAL	2585	47.727	8.953	61.400	1.00	25.51
ATOM	17327	CA	VAL	2585	46.444	10.772	61.925	1.00	23.75
ATOM	17328	CB	VAL	2585	46.511	11.758	60.214	1.00	24.79
ATOM	17329	CG1	VAL	2585	47.075	11.471	61.757	1.00	23.79
ATOM	17330	CG2	VAL	2585	47.123	11.872	60.797	1.00	25.93
ATOM	17331	C	VAL	2585	47.855	9.875	64.343	1.00	25.46
ATOM	17332	O	VAL	2585	48.317	10.377	67.553	1.00	24.77
ATOM	17333	N	GLU	2586	47.563	9.072	67.247	1.00	26.75
ATOM	17334	CA	GLU	2586	49.339	8.973	64.379	1.00	28.54
ATOM	17335	CB	GLU	2586	50.559	7.578	67.373	1.00	30.14
ATOM	17336	CG	GLU	2586	43.580	6.777	68.635	1.00	31.51
ATOM	17337	CD	GLU	2586	43.343	7.675	67.757	1.00	31.22
ATOM	17338	CE1	GLU	2586	47.164	8.777	67.555	1.00	30.10
ATOM	17339	CE2	GLU	2586	47.649	7.377	67.392	1.00	30.25
ATOM	17340	C	GLU	2586	50.064	8.770	64.456	1.00	29.46
ATOM	17341	O	GLU	2586	51.045	8.775	61.759	1.00	27.67
ATOM	17342	N	SER	2587	47.067	7.374	63.017	1.00	27.65
ATOM	17343	CA	LEU	2587	49.377	8.374	61.674	1.00	26.73
ATOM	17344	CB	LEU	2587	48.037	5.771	61.554	1.00	23.21
ATOM	17345	CG	LEU	2587	48.379	11.177	63.721	1.00	30.72
ATOM	17346	CD	LEU	2587	47.099	3.770	60.454	1.00	29.11
ATOM	17347	CE1	LEU	2587	49.043	4.377	63.409	1.00	31.86
ATOM	17348	C	LEU	2587	48.785	7.377	60.654	1.00	26.34
ATOM	17349	O	LEU	2587	49.398	7.377	62.583	1.00	24.48
ATOM	17350	N	ALA	2588	47.848	8.374	60.994	1.00	24.60
ATOM	17351	CA	ALA	2588	47.484	7.377	60.111	1.00	23.79
ATOM	17352	CB	ALA	2588	46.331	10.777	60.712	1.00	25.08
ATOM	17353	C	ALA	2588	47.873	10.877	59.887	1.00	24.14

ATOM	17354	O	ALA	2588	48.839	11.415	58.822	1.00	22.54
ATOM	17355	N	LYS	2589	49.548	10.904	60.901	1.00	24.22
ATOM	17356	CA	LYS	2589	50.760	11.769	60.816	1.00	25.74
ATOM	17357	CB	LYS	2589	51.471	11.751	62.192	1.00	27.20
ATOM	17358	CG	LYS	2589	50.586	12.130	63.545	1.00	32.13
ATOM	17359	CD	LYS	2589	51.599	12.329	64.425	1.00	36.29
ATOM	17360	CE	LYS	2589	50.510	12.750	65.784	1.00	35.55
ATOM	17361	NZ	LYS	2589	51.196	13.309	66.817	1.00	39.50
ATOM	17362	C	LYS	2589	51.894	11.088	59.781	1.00	22.37
ATOM	17363	O	LYS	2589	52.171	11.773	58.881	1.00	26.48
ATOM	17364	N	ARG	2590	51.934	9.781	59.415	1.00	23.58
ATOM	17365	CA	ARG	2590	52.813	9.091	59.005	1.00	22.93
ATOM	17366	CB	ARG	2590	52.882	9.171	59.874	1.00	25.56
ATOM	17367	CG	ARG	2590	52.859	9.280	60.861	1.00	27.56
ATOM	17368	CD	ARG	2590	53.951	9.187	61.187	1.00	28.90
ATOM	17369	NE	ARG	2590	53.876	9.998	60.319	1.00	28.63
ATOM	17370	CZ	ARG	2590	53.110	10.811	60.706	1.00	30.46
ATOM	17371	NH1	ARG	2590	53.422	10.801	61.801	1.00	30.99
ATOM	17372	NH2	ARG	2590	53.159	10.909	59.701	1.00	30.27
ATOM	17373	C	ARG	2590	52.446	9.138	57.116	1.00	21.50
ATOM	17374	O	ARG	2590	52.151	9.894	56.841	1.00	21.17
ATOM	17375	N	ILE	2591	51.840	9.077	57.842	1.00	20.90
ATOM	17376	CA	ILE	2591	50.190	9.110	55.891	1.00	19.61
ATOM	17377	CB	ILE	2591	49.021	8.877	55.880	1.00	20.34
ATOM	17378	C32	ILE	2591	48.118	8.781	54.880	1.00	21.46
ATOM	17379	C31	ILE	2591	48.171	9.136	56.191	1.00	20.94
ATOM	17380	C31	ILE	2591	47.785	9.638	56.888	1.00	21.52
ATOM	17381	C	ILE	2591	50.191	10.553	55.110	1.00	23.05
ATOM	17382	O	ILE	2591	51.105	10.771	54.161	1.00	19.87
ATOM	17383	N	THR	2592	50.121	11.148	56.107	1.00	19.25
ATOM	17384	CA	THR	2592	50.776	11.141	55.449	1.00	21.08
ATOM	17385	CB	THR	2592	49.443	11.194	56.826	1.00	21.69
ATOM	17386	C31	THR	2592	48.758	11.617	57.000	1.00	21.71
ATOM	17387	C32	THR	2592	49.889	11.111	56.168	1.00	21.53
ATOM	17388	C	THR	2592	52.893	11.146	55.876	1.00	23.76
ATOM	17389	O	THR	2592	52.896	13.061	54.117	1.00	24.12
ATOM	17390	N	GLU	2593	52.876	13.181	56.138	1.00	21.91
ATOM	17391	CA	GLU	2593	54.159	13.117	55.134	1.00	21.87
ATOM	17392	CB	GLU	2593	54.836	13.113	57.171	1.00	29.33
ATOM	17393	C3	GLU	2593	54.427	13.161	58.199	1.00	33.19
ATOM	17394	CD	GLU	2593	53.167	13.610	59.486	1.00	36.93
ATOM	17395	C31	GLU	2593	53.111	13.110	59.192	1.00	36.76
ATOM	17396	C32	GLU	2593	53.849	13.619	60.121	1.00	38.10
ATOM	17397	C	GLU	2593	54.800	13.147	54.664	1.00	26.14
ATOM	17398	O	GLU	2593	55.781	13.191	53.155	1.00	26.29
ATOM	17399	N	ALA	2594	54.171	13.113	54.165	1.00	24.55
ATOM	17400	CA	ALA	2594	54.826	13.211	53.189	1.00	24.61
ATOM	17401	CB	ALA	2594	54.151	13.813	53.101	1.00	24.77
ATOM	17402	C	ALA	2594	54.188	13.679	52.115	1.00	24.72
ATOM	17403	O	ALA	2594	54.181	13.519	51.106	1.00	24.92
ATOM	17404	N	LEU	2595	53.162	11.113	52.169	1.00	23.86
ATOM	17405	CA	LEU	2595	52.759	11.612	50.196	1.00	23.39
ATOM	17406	CB	LEU	2595	50.739	11.317	50.118	1.00	23.16
ATOM	17407	C3	LEU	2595	50.111	11.315	50.151	1.00	25.00
ATOM	17408	C31	LEU	2595	48.681	11.914	50.155	1.00	24.60
ATOM	17409	C32	LEU	2595	50.131	11.115	49.698	1.00	27.49
ATOM	17410	C	LEU	2595	52.626	13.115	50.119	1.00	22.38
ATOM	17411	O	LEU	2595	52.190	13.611	51.110	1.00	22.82
ATOM	17412	N	ALA	2596	52.673	13.210	49.111	1.00	21.91
ATOM	17413	CA	ALA	2596	52.107	14.613	48.181	1.00	20.98
ATOM	17414	CB	ALA	2596	53.676	14.112	47.151	1.00	21.84
ATOM	17415	C	ALA	2596	51.651	15.111	46.113	1.00	21.81
ATOM	17416	O	ALA	2596	51.101	16.119	45.121	1.00	19.97
ATOM	17417	N	ILE	2597	50.163	14.417	47.171	1.00	22.36
ATOM	17418	CA	ILE	2597	48.106	14.915	47.114	1.00	22.38
ATOM	17419	CB	ILE	2597	48.113	13.917	47.138	1.00	20.84
ATOM	17420	C31	ILE	2597	48.971	13.619	45.612	1.00	21.38
ATOM	17421	C32	ILE	2597	48.174	12.612	47.887	1.00	20.61
ATOM	17422	C31	ILE	2597	47.152	11.611	47.116	1.00	22.88
ATOM	17423	C	ILE	2597	48.156	13.111	46.684	1.00	23.15
ATOM	17424	O	ILE	2597	48.889	14.714	46.109	1.00	24.66
ATOM	17425	N	PRO	2598	47.618	16.176	49.191	1.00	24.26
ATOM	17426	CA	PRO	2598	47.190	17.134	47.173	1.00	24.78
ATOM	17427	CB	PRO	2598	46.151	16.557	50.133	1.00	24.44
ATOM	17428	C3	PRO	2598	46.158	17.998	49.946	1.00	24.19
ATOM	17429	CG	PRO	2598	45.908	17.716	48.487	1.00	27.18
ATOM	17430	C	PRO	2598	46.179	15.153	50.155	1.00	24.66

ATOM	17431	O	PRO	2598	45.401	14.813	50.218	1.00	23.16
ATOM	17432	N	VAL	2599	46.126	15.440	52.557	1.00	22.78
ATOM	17433	CA	VAL	2599	45.360	14.441	52.384	1.00	22.33
ATOM	17434	CB	VAL	2599	46.286	15.580	53.873	1.00	22.48
ATOM	17435	CG1	VAL	2599	45.475	12.535	54.627	1.00	22.67
ATOM	17436	CG2	VAL	2599	47.350	12.915	53.913	1.00	22.46
ATOM	17437	O	VAL	2599	44.311	15.133	53.657	1.00	23.71
ATOM	17438	C	VAL	2599	44.638	15.979	54.692	1.00	22.11
ATOM	17439	N	ILE	2600	43.048	14.779	52.641	1.00	21.85
ATOM	17440	CA	ILE	2600	41.944	15.360	54.192	1.00	20.32
ATOM	17441	CB	ILE	2600	40.774	15.219	53.459	1.00	19.87
ATOM	17442	CG2	ILE	2600	39.599	16.283	54.169	1.00	20.69
ATOM	17443	CG1	ILE	2600	41.265	16.520	52.809	1.00	22.41
ATOM	17444	CD1	ILE	2600	40.294	16.941	51.262	1.00	23.07
ATOM	17445	C	ILE	2600	41.492	14.543	55.429	1.00	19.49
ATOM	17446	O	ILE	2600	41.199	12.199	55.094	1.00	18.72
ATOM	17447	N	GLY	2601	41.442	14.754	56.690	1.00	19.66
ATOM	17448	CA	GLY	2601	41.053	13.813	57.721	1.00	18.12
ATOM	17449	C	GLY	2601	39.700	14.031	58.431	1.00	18.77
ATOM	17450	O	GLY	2601	39.154	15.135	58.862	1.00	18.90
ATOM	17451	N	ILE	2602	39.155	12.936	58.892	1.00	18.12
ATOM	17452	CA	ILE	2602	37.892	12.948	59.806	1.00	18.42
ATOM	17453	CB	ILE	2602	36.684	12.679	58.971	1.00	20.77
ATOM	17454	CG2	ILE	2602	36.964	11.419	57.821	1.00	21.95
ATOM	17455	CG1	ILE	2602	35.424	12.479	59.318	1.00	24.37
ATOM	17456	CD1	ILE	2602	35.090	13.650	60.407	1.00	27.34
ATOM	17457	C	ILE	2602	38.059	12.919	60.618	1.00	19.12
ATOM	17458	O	ILE	2602	37.875	10.734	60.854	1.00	16.13
ATOM	17459	N	GLY	2603	38.317	11.333	61.801	1.00	16.92
ATOM	17460	CA	GLY	2603	38.431	13.411	62.980	1.00	18.14
ATOM	17461	C	GLY	2603	39.864	10.934	62.830	1.00	18.71
ATOM	17462	O	GLY	2603	40.169	9.821	63.111	1.00	19.69
ATOM	17463	N	ALA	2604	40.743	11.717	62.823	1.00	20.87
ATOM	17464	CA	ALA	2604	42.160	11.763	62.819	1.00	22.46
ATOM	17465	CB	ALA	2604	42.514	13.129	60.758	1.00	21.36
ATOM	17466	C	ALA	2604	43.076	12.531	62.888	1.00	23.92
ATOM	17467	O	ALA	2604	44.292	13.576	62.671	1.00	25.16
ATOM	17468	N	GLY	2605	42.492	13.168	62.688	1.00	21.78
ATOM	17469	CA	GLY	2605	42.283	14.171	64.381	1.00	24.35
ATOM	17470	C	GLY	2605	43.540	15.533	62.580	1.00	23.65
ATOM	17471	O	GLY	2605	43.042	15.636	62.444	1.00	23.74
ATOM	17472	N	ASN	2606	44.312	16.433	64.102	1.00	22.87
ATOM	17473	CA	ASN	2606	44.610	17.636	62.781	1.00	22.84
ATOM	17474	CB	ASN	2606	44.614	14.834	64.678	1.00	24.93
ATOM	17475	CG	ASN	2606	45.351	14.816	65.284	1.00	27.15
ATOM	17476	OD1	ASN	2606	45.935	13.737	66.182	1.00	30.24
ATOM	17477	ND2	ASN	2606	46.611	15.779	65.350	1.00	31.61
ATOM	17478	C	ASN	2606	45.935	17.619	62.644	1.00	22.90
ATOM	17479	O	ASN	2606	46.128	13.680	62.135	1.00	21.27
ATOM	17480	N	VAL	2607	46.491	16.450	63.591	1.00	21.87
ATOM	17481	CA	VAL	2607	47.781	16.264	61.835	1.00	23.96
ATOM	17482	CB	VAL	2607	48.171	14.975	62.343	1.00	25.16
ATOM	17483	CG1	VAL	2607	49.396	14.903	61.813	1.00	29.68
ATOM	17484	CG2	VAL	2607	48.478	14.951	63.46	1.00	28.00
ATOM	17485	C	VAL	2607	47.698	16.210	60.398	1.00	23.15
ATOM	17486	O	VAL	2607	48.706	16.350	59.614	1.00	19.39
ATOM	17487	N	THR	2608	48.489	16.010	59.791	1.00	23.14
ATOM	17488	CA	THR	2608	48.27	15.945	58.351	1.00	18.55
ATOM	17489	CB	THR	2608	44.931	15.247	58.049	1.00	17.13
ATOM	17490	CG1	THR	2608	44.864	15.642	58.67	1.00	17.64
ATOM	17491	CG2	THR	2608	44.958	13.615	59.327	1.00	16.25
ATOM	17492	C	THR	2608	44.287	17.343	57.738	1.00	18.13
ATOM	17493	O	THR	2608	46.209	14.544	58.444	1.00	14.62
ATOM	17494	N	ASP	2609	46.392	17.592	55.414	1.00	18.90
ATOM	17495	CA	ASP	2609	46.433	15.653	55.635	1.00	19.61
ATOM	17496	CB	ASP	2609	46.853	15.584	54.238	1.00	20.89
ATOM	17497	CG	ASP	2609	46.204	17.628	54.143	1.00	22.35
ATOM	17498	CD1	ASP	2609	49.214	18.315	54.530	1.00	25.80
ATOM	17499	OD1	ASP	2609	48.269	16.544	53.682	1.00	25.46
ATOM	17500	C	ASP	2609	45.161	19.386	55.731	1.00	19.74
ATOM	17501	O	ASP	2609	45.051	20.607	55.643	1.00	18.76
ATOM	17502	N	GLY	2610	44.014	18.620	55.754	1.00	19.79
ATOM	17503	CA	GLY	2610	42.703	19.239	55.771	1.00	17.70
ATOM	17504	C	GLY	2610	41.726	18.492	56.646	1.00	14.64
ATOM	17505	O	GLY	2610	41.851	17.457	57.234	1.00	17.46
ATOM	17506	N	GLN	2611	40.533	19.824	56.752	1.00	17.59
ATOM	17507	CA	GLN	2611	39.486	20.899	57.816	1.00	17.69

ATOM	17508	CR	GLN	2611	39.268	19.190	58.853	1.00	19.92
ATOM	17509	CS	GLN	2611	40.465	19.210	59.799	1.00	20.42
ATOM	17510	CF	GLN	2611	40.846	17.819	60.291	1.00	21.00
ATOM	17511	CE1	GLN	2611	39.984	17.015	60.627	1.00	24.19
ATOM	17512	NE2	GLN	2611	42.146	17.561	60.354	1.00	18.83
ATOM	17513	C	GLN	2611	38.164	18.341	56.800	1.00	17.61
ATOM	17514	N	GLN	2611	37.911	19.151	55.905	1.00	17.66
ATOM	17515	N	ILE	2612	37.327	17.279	57.168	1.00	20.61
ATOM	17516	CA	ILE	2612	36.011	17.259	56.557	1.00	21.18
ATOM	17517	CB	ILE	2612	36.047	16.279	55.336	1.00	21.95
ATOM	17518	CS2	ILE	2612	36.253	14.825	55.751	1.00	17.51
ATOM	17519	CS1	ILE	2612	34.747	16.421	54.542	1.00	21.60
ATOM	17520	CD1	ILE	2612	34.855	15.977	53.097	1.00	21.16
ATOM	17521	C	ILE	2612	35.043	16.724	57.611	1.00	21.10
ATOM	17522	O	ILE	2612	35.435	16.034	58.559	1.00	23.34
ATOM	17523	N	LEU	2613	33.774	17.072	57.458	1.00	25.37
ATOM	17524	CA	LEU	2613	32.774	16.644	58.416	1.00	27.65
ATOM	17525	CB	LEU	2613	31.931	17.476	59.656	1.00	31.09
ATOM	17526	CC	LEU	2613	31.363	18.023	61.010	1.00	34.60
ATOM	17527	CT1	LEU	2613	31.034	17.970	62.111	1.00	34.14
ATOM	17528	CT2	LEU	2613	30.961	16.873	61.010	1.00	31.19
ATOM	17529	C	LEU	2613	31.381	16.842	57.611	1.00	27.14
ATOM	17530	O	LEU	2613	31.163	17.787	57.044	1.00	28.37
ATOM	17531	N	VAL	2614	30.490	15.061	58.173	1.00	27.18
ATOM	17532	CA	VAL	2614	29.087	16.073	57.678	1.00	27.05
ATOM	17533	CB	VAL	2614	28.210	14.890	58.141	1.00	28.19
ATOM	17534	CG1	VAL	2614	26.793	15.017	57.597	1.00	28.11
ATOM	17535	CG2	VAL	2614	28.425	13.772	57.671	1.00	28.66
ATOM	17536	C	VAL	2614	28.523	17.355	58.218	1.00	27.14
ATOM	17537	O	VAL	2614	28.502	17.130	53.449	1.00	26.11
ATOM	17538	N	MET	2615	28.985	18.231	57.344	1.00	24.15
ATOM	17539	CA	MET	2615	27.647	19.112	57.753	1.00	23.18
ATOM	17540	CE	MET	2615	28.987	20.174	56.546	1.00	20.69
ATOM	17541	CG	MET	2615	25.813	19.364	55.890	1.00	18.65
ATOM	17542	CH	MET	2615	24.656	20.175	55.265	1.00	19.12
ATOM	17543	CE	MET	2615	23.584	20.960	56.690	1.00	18.17
ATOM	17544	C	MET	2615	24.440	19.393	53.896	1.00	21.14
ATOM	17545	O	MET	2615	26.255	20.111	53.632	1.00	21.03
ATOM	17546	N	HIS	2616	25.701	18.168	53.776	1.00	21.37
ATOM	17547	CA	HIS	2616	24.627	15.170	53.707	1.00	21.14
ATOM	17548	CB	HIS	2616	23.741	16.960	53.314	1.00	21.31
ATOM	17549	CG	HIS	2616	23.013	17.181	58.030	1.00	18.70
ATOM	17550	CD2	HIS	2616	23.417	17.671	56.743	1.00	18.17
ATOM	17551	ND1	HIS	2616	21.736	17.607	57.967	1.00	20.75
ATOM	17552	CE1	HIS	2616	21.385	17.855	56.779	1.00	18.61
ATOM	17553	NE2	HIS	2616	22.388	17.174	55.955	1.00	20.61
ATOM	17554	C	HIS	2616	25.122	17.825	61.161	1.00	23.40
ATOM	17555	O	HIS	2616	24.420	18.766	62.113	1.00	21.84
ATOM	17556	N	ASP	2617	26.323	17.379	61.322	1.00	24.60
ATOM	17557	CA	ASP	2617	26.880	17.158	62.664	1.00	28.05
ATOM	17558	CB	ASP	2617	27.918	16.060	62.677	1.00	29.34
ATOM	17559	CG	ASP	2617	27.111	14.713	62.396	1.00	30.71
ATOM	17560	GD1	ASP	2617	26.339	14.330	63.088	1.00	30.70
ATOM	17561	GD2	ASP	2617	27.818	14.012	61.487	1.00	31.71
ATOM	17562	C	ASP	2617	27.735	18.473	63.153	1.00	28.63
ATOM	17563	O	ASP	2617	27.681	18.679	64.356	1.00	30.34
ATOM	17564	N	ALA	2618	27.328	19.373	62.117	1.00	29.76
ATOM	17565	CA	ALA	2618	28.177	20.373	62.561	1.00	31.50
ATOM	17566	CB	ALA	2618	29.411	21.152	61.339	1.00	30.32
ATOM	17567	C	ALA	2618	27.606	21.635	63.116	1.00	31.19
ATOM	17568	O	ALA	2618	28.629	21.630	64.707	1.00	33.01
ATOM	17569	N	PRO	2619	28.679	21.171	62.921	1.00	32.17
ATOM	17570	CA	PRO	2619	25.111	22.350	63.436	1.00	33.26
ATOM	17571	CB	PRO	2619	24.534	22.962	62.280	1.00	35.56
ATOM	17572	CG	PRO	2619	25.154	23.485	61.174	1.00	33.63
ATOM	17573	CD1	PRO	2619	24.437	24.316	61.452	1.00	34.62
ATOM	17574	CD2	PRO	2619	25.176	23.119	59.950	1.00	34.68
ATOM	17575	CE1	PRO	2619	27.377	24.314	60.432	1.00	36.78
ATOM	17576	CE2	PRO	2619	25.969	23.541	58.801	1.00	36.19
ATOM	17577	CH	PRO	2619	27.557	24.335	59.114	1.00	35.73
ATOM	17578	C	PRO	2619	24.359	21.844	64.423	1.00	32.67
ATOM	17579	O	PRO	2619	23.347	22.173	64.642	1.00	33.99
ATOM	17580	N	GLY	2620	24.355	20.356	65.123	1.00	33.38
ATOM	17581	C	GLY	2620	23.959	19.835	65.156	1.00	32.34
ATOM	17582	CA	GLY	2620	25.119	19.493	65.490	1.00	32.02
ATOM	17583	O	GLY	2620	24.315	19.214	66.183	1.00	33.91
ATOM	17584	N	ILE	2621	23.344	18.347	63.117	1.00	31.15

ATOM	17585	CA	ILE	2621	21.176	19.046	63.589	1.00	29.00
ATOM	17586	CR	ILE	2621	21.170	19.248	62.057	1.00	26.35
ATOM	17587	CG2	ILF	2621	19.867	18.713	61.464	1.00	25.62
ATOM	17588	CG1	ILF	2621	21.332	20.730	61.739	1.00	24.08
ATOM	17589	CD1	ILF	2621	21.695	21.009	60.295	1.00	24.54
ATOM	17590	C	ILF	2621	20.900	18.581	61.895	1.00	30.31
ATOM	17591	C	ILF	2621	19.780	17.209	64.024	1.00	29.60
ATOM	17592	N	THR	2622	21.956	16.756	63.799	1.00	32.59
ATOM	17593	CA	THR	2622	21.794	15.809	64.053	1.00	35.67
ATOM	17594	CP	THR	2622	23.035	14.556	64.166	1.00	35.42
ATOM	17595	CG1	THR	2622	23.141	14.813	64.434	1.00	36.19
ATOM	17596	CG2	THR	2622	23.407	15.605	62.118	1.00	31.84
ATOM	17597	C	THR	2622	21.581	15.057	63.535	1.00	38.18
ATOM	17598	O	THR	2622	21.311	15.549	63.383	1.00	38.40
ATOM	17599	N	GLY	2623	20.571	14.716	63.817	1.00	41.10
ATOM	17600	CA	GLY	2623	20.237	13.834	63.184	1.00	46.07
ATOM	17601	C	GLY	2623	20.921	14.664	63.139	1.00	49.46
ATOM	17602	O	GLY	2623	20.755	15.854	63.042	1.00	50.21
ATOM	17603	N	GLA	2624	21.685	13.960	63.135	1.00	51.80
ATOM	17604	CA	GLA	2624	21.170	14.661	63.111	1.00	53.86
ATOM	17605	C	GLA	2624	21.736	14.666	63.118	1.00	53.87
ATOM	17606	O	GLA	2624	24.670	14.811	63.086	1.00	56.17
ATOM	17607	N	HI	2625	21.819	11.963	63.141	1.00	58.75
ATOM	17608	CA	HI	2625	21.958	11.087	63.164	1.00	56.39
ATOM	17609	CB	HI	2625	24.317	10.342	61.852	1.00	58.60
ATOM	17610	CG	HI	2625	23.122	10.344	61.678	1.00	61.61
ATOM	17611	CD	HI	2625	21.959	10.121	63.032	1.00	62.23
ATOM	17612	CE1	HI	2625	23.851	11.555	63.076	1.00	61.65
ATOM	17613	CE2	HI	2625	21.355	11.164	63.069	1.00	62.69
ATOM	17614	NE2	HI	2625	21.708	10.561	63.406	1.00	61.05
ATOM	17615	C	HI	2625	21.857	11.839	63.104	1.00	55.11
ATOM	17616	O	HI	2625	20.750	10.851	63.091	1.00	55.29
ATOM	17617	N	ILS	2626	20.568	11.052	63.185	1.00	53.22
ATOM	17618	CA	ILS	2626	21.157	10.111	63.186	1.00	50.84
ATOM	17619	CB	ILS	2626	21.156	13.566	63.165	1.00	51.18
ATOM	17620	CG2	ILS	2626	20.112	11.063	63.124	1.00	53.29
ATOM	17621	CG1	ILS	2626	21.857	11.118	63.151	1.00	50.33
ATOM	17622	CD1	ILS	2626	20.350	10.114	63.151	1.00	51.34
ATOM	17623	C	ILS	2626	21.464	11.353	63.184	1.00	47.66
ATOM	17624	O	ILS	2626	20.855	11.667	63.112	1.00	47.90
ATOM	17625	N	PRO	2627	20.189	11.963	63.159	1.00	45.93
ATOM	17626	CD	PRO	2627	20.901	12.766	63.155	1.00	45.13
ATOM	17627	CB	PRO	2627	30.436	11.963	63.116	1.00	43.64
ATOM	17628	CA	PRO	2627	30.801	10.664	63.134	1.00	43.90
ATOM	17629	CG	PRO	2627	20.064	12.663	63.143	1.00	45.31
ATOM	17630	C	PRO	2627	31.133	11.963	63.162	1.00	41.87
ATOM	17631	O	PRO	2627	31.199	13.163	63.167	1.00	41.53
ATOM	17632	N	LYS	2628	30.890	11.243	63.132	1.00	40.14
ATOM	17633	CA	LYS	2628	30.485	11.446	63.134	1.00	39.09
ATOM	17634	CB	LYS	2628	31.362	10.755	63.064	1.00	41.61
ATOM	17635	CG	LYS	2628	34.181	10.590	71.340	1.00	44.14
ATOM	17636	CD	LYS	2628	33.661	9.998	71.567	1.00	46.92
ATOM	17637	CE	LYS	2628	32.359	9.833	73.051	1.00	47.79
ATOM	17638	NZ	LYS	2628	30.355	9.430	73.304	1.00	49.12
ATOM	17639	C	LYS	2628	34.372	12.141	63.136	1.00	36.45
ATOM	17640	O	LYS	2628	34.005	13.331	63.065	1.00	36.12
ATOM	17641	N	PHE	2629	31.531	12.340	67.193	1.00	32.52
ATOM	17642	CA	PHE	2629	30.337	13.133	63.123	1.00	29.15
ATOM	17643	CB	PHE	2629	30.876	12.215	65.157	1.00	29.64
ATOM	17644	CG	PHE	2629	34.772	11.755	61.115	1.00	29.68
ATOM	17645	CD1	PHE	2629	31.089	11.561	63.113	1.00	29.41
ATOM	17646	CD2	PHE	2629	31.431	12.431	61.113	1.00	32.24
ATOM	17647	CE1	PHE	2629	33.635	12.036	62.553	1.00	32.58
ATOM	17648	CE2	PHE	2629	33.433	9.873	63.550	1.00	32.17
ATOM	17649	CE3	PHE	2629	31.711	13.653	61.661	1.00	31.01
ATOM	17650	C	PHE	2629	31.742	14.333	63.641	1.00	28.39
ATOM	17651	O	PHE	2629	31.426	13.519	63.133	1.00	24.55
ATOM	17652	N	ALA	2630	33.433	14.537	65.869	1.00	34.08
ATOM	17653	CA	ALA	2630	21.720	15.751	65.388	1.00	24.35
ATOM	17654	CB	ALA	2630	31.341	15.559	64.856	1.00	23.75
ATOM	17655	C	ALA	2630	21.555	16.621	66.473	1.00	23.19
ATOM	17656	O	ALA	2630	32.719	16.539	67.659	1.00	23.56
ATOM	17657	N	LYS	2631	32.752	18.043	66.046	1.00	23.36
ATOM	17658	CA	LYS	2631	32.639	19.164	66.955	1.00	23.75
ATOM	17659	CB	LYS	2631	31.519	19.993	67.105	1.00	23.84
ATOM	17660	CG	LYS	2631	33.127	21.250	67.947	1.00	25.36
ATOM	17661	CD	LYS	2631	34.435	21.959	68.159	1.00	25.36

AT-M	17662	CE	LYS	2631	34.227	23.261	68.968	1.00	28.22
AT-M	17663	NZ	LYS	2631	35.499	24.010	69.116	1.00	29.85
AT-M	17664	C	LYS	2631	30.921	20.068	66.444	1.00	22.92
AT-M	17665	O	LYS	2631	30.895	20.422	65.761	1.00	21.69
AT-M	17666	N	ASN	2632	30.015	20.476	67.345	1.00	23.42
AT-M	17667	CA	ASN	2632	28.889	21.310	67.026	1.00	22.87
AT-M	17668	CB	ASN	2632	27.771	21.221	68.058	1.00	22.06
AT-M	17669	CG	ASN	2632	24.566	22.005	67.792	1.00	22.77
AT-M	17670	OD1	ASN	2632	24.626	22.943	66.994	1.00	23.52
AT-M	17671	ND2	ASN	2632	21.453	21.716	68.475	1.00	20.23
AT-M	17672	C	ASN	2632	29.234	22.748	67.080	1.00	22.32
AT-M	17673	O	ASN	2632	29.559	23.706	68.167	1.00	22.04
AT-M	17674	N	PHE	2633	29.617	23.748	65.918	1.00	20.88
AT-M	17675	CA	PHE	2633	30.103	24.704	65.823	1.00	22.92
AT-M	17676	CB	PHE	2633	30.879	24.980	64.576	1.00	21.76
AT-M	17677	CG	PHE	2633	32.130	24.145	64.492	1.00	25.62
AT-M	17678	CD1	PHE	2633	32.224	27.938	64.020	1.00	25.78
AT-M	17679	CD2	PHE	2633	32.167	24.832	64.933	1.00	25.99
AT-M	17680	CE1	PHE	2633	32.421	22.779	65.003	1.00	25.39
AT-M	17681	CE2	PHE	2633	32.561	24.778	64.003	1.00	24.67
AT-M	17682	CD	PHE	2633	34.597	22.771	64.141	1.00	27.61
AT-M	17683	C	PHE	2633	29.090	22.747	66.000	1.00	21.51
AT-M	17684	O	PHE	2633	28.237	26.930	66.120	1.00	22.07
AT-M	17685	N	LEU	2634	27.748	22.779	65.117	1.00	20.96
AT-M	17686	CA	LEU	2634	27.621	23.116	66.884	1.00	25.40
AT-M	17687	CB	LEU	2634	28.531	23.808	65.183	1.00	25.40
AT-M	17688	CG	LEU	2634	24.671	26.438	65.717	1.00	19.60
AT-M	17689	CD1	LEU	2634	24.167	27.736	65.909	1.00	19.86
AT-M	17690	CD2	LEU	2634	27.876	23.021	65.189	1.00	17.40
AT-M	17691	C	LEU	2634	26.337	26.947	67.001	1.00	28.16
AT-M	17692	O	LEU	2634	28.108	27.748	67.003	1.00	27.99
AT-M	17693	N	ALA	2635	26.516	22.532	68.384	1.00	30.90
AT-M	17694	CA	ALA	2635	26.326	22.750	69.811	1.00	36.08
AT-M	17695	CB	ALA	2635	26.545	24.134	70.319	1.00	35.24
AT-M	17696	C	ALA	2635	27.297	23.821	70.336	1.00	40.21
AT-M	17697	O	ALA	2635	28.965	27.589	71.168	1.00	41.34
AT-M	17698	N	GLU	2636	28.436	23.812	69.789	1.00	43.51
AT-M	17699	CA	GLU	2636	29.150	27.748	70.110	1.00	47.27
AT-M	17700	CB	GLU	2636	29.835	27.711	69.509	1.00	49.64
AT-M	17701	CG	GLU	2636	31.120	28.332	69.789	1.00	52.15
AT-M	17702	CD	GLU	2636	31.134	28.332	71.138	1.00	53.80
AT-M	17703	CE1	GLU	2636	30.830	28.315	72.003	1.00	55.93
AT-M	17704	CE2	GLU	2636	32.652	24.834	71.334	1.00	54.56
AT-M	17705	C	GLU	2636	29.183	29.147	69.630	1.00	47.91
AT-M	17706	O	GLU	2636	30.017	29.657	69.645	1.00	48.49
AT-M	17707	N	THR	2637	27.927	23.706	69.163	1.00	48.71
AT-M	17708	CA	THR	2637	27.418	23.735	68.764	1.00	48.17
AT-M	17709	CB	THR	2637	28.051	26.334	67.304	1.00	48.89
AT-M	17710	CG1	THR	2637	27.518	22.111	66.332	1.00	48.26
AT-M	17711	CG2	THR	2637	27.890	23.539	66.369	1.00	49.85
AT-M	17712	C	THR	2637	25.894	20.592	68.636	1.00	47.69
AT-M	17713	O	THR	2637	25.139	19.744	69.336	1.00	48.21
AT-M	17714	N	GLY	2638	25.736	21.749	67.704	1.00	45.54
AT-M	17715	CA	GLY	2638	23.898	21.733	67.536	1.00	43.10
AT-M	17716	C	GLY	2638	23.355	21.523	66.062	1.00	40.35
AT-M	17717	O	GLY	2638	23.403	21.631	65.749	1.00	40.42
AT-M	17718	N	ASP	2639	23.567	21.437	65.224	1.00	37.74
AT-M	17719	CA	ASP	2639	24.411	21.755	63.799	1.00	35.76
AT-M	17720	CB	ASP	2639	25.025	23.110	63.469	1.00	36.24
AT-M	17721	CG	ASP	2639	24.644	21.573	62.078	1.00	31.28
AT-M	17722	CD1	ASP	2639	25.576	23.114	61.495	1.00	42.73
AT-M	17723	CD2	ASP	2639	25.501	23.211	61.620	1.00	43.17
AT-M	17724	C	ASP	2639	25.117	20.674	62.987	1.00	32.25
AT-M	17725	O	ASP	2639	26.276	21.331	63.206	1.00	39.44
AT-M	17726	N	ILE	2640	24.499	23.114	61.985	1.00	28.72
AT-M	17727	CA	ILE	2640	25.005	24.033	61.149	1.00	29.71
AT-M	17728	CB	ILE	2640	23.959	24.479	60.176	1.00	25.25
AT-M	17729	CG	ILE	2640	24.657	27.623	59.111	1.00	23.48
AT-M	17730	CD	ILE	2640	23.957	27.636	60.969	1.00	21.50
AT-M	17731	CE1	ILE	2640	21.751	27.156	60.161	1.00	21.27
AT-M	17732	C	ILE	2640	26.704	24.012	60.358	1.00	25.10
AT-M	17733	O	ILE	2640	27.351	24.663	60.100	1.00	25.40
AT-M	17734	N	ARG	2641	26.061	31.785	59.752	1.00	24.14
AT-M	17735	CA	ARG	2641	26.129	31.736	58.969	1.00	27.19
AT-M	17736	CB	ARG	2641	26.729	32.642	59.189	1.00	22.31
AT-M	17737	CG	ARG	2641	25.859	28.790	57.097	1.00	20.10
AT-M	17738	C	ARG	2641	26.497	29.789	56.144	1.00	23.40

ATOM	17739	NE	ARG	2641	24.650	33.441	55.710	1.00	27.34
ATOM	17740	CZ	ARG	2641	23.453	32.863	55.166	1.00	26.81
ATOM	17741	NH1	ARG	2641	22.856	22.466	56.183	1.00	25.50
ATOM	17742	NH2	ARG	2641	23.854	32.674	53.996	1.00	28.36
ATOM	17743	C	ARG	2641	28.246	31.631	59.917	1.00	23.31
ATOM	17744	O	ARG	2641	23.508	31.524	59.511	1.00	20.34
ATOM	17745	N	ALA	2642	28.047	31.599	61.162	1.00	23.35
ATOM	17746	CA	ALA	2642	29.089	22.153	62.143	1.00	25.68
ATOM	17747	CB	ALA	2642	23.464	32.881	63.404	1.00	26.54
ATOM	17748	C	ALA	2642	23.785	30.929	62.484	1.00	26.20
ATOM	17749	O	ALA	2642	30.979	30.873	62.687	1.00	26.09
ATOM	17750	N	ALA	2643	28.972	29.861	62.138	1.00	24.61
ATOM	17751	CA	ALA	2643	23.504	18.538	62.847	1.00	24.06
ATOM	17752	CB	ALA	2643	28.360	17.535	62.989	1.00	25.00
ATOM	17753	C	ALA	2643	30.400	18.098	62.738	1.00	23.31
ATOM	17754	O	ALA	2643	31.491	17.392	62.608	1.00	22.51
ATOM	17755	N	VAL	2644	33.107	18.341	60.494	1.00	21.63
ATOM	17756	CA	VAL	2644	33.931	18.003	59.340	1.00	23.56
ATOM	17757	CB	VAL	2644	37.162	28.761	59.619	1.00	23.61
ATOM	17758	CG1	VAL	2644	31.191	18.148	59.930	1.00	21.89
ATOM	17759	CG2	VAL	2644	28.945	17.737	59.817	1.00	24.17
ATOM	17760	C	VAL	2644	33.287	28.791	59.442	1.00	25.21
ATOM	17761	O	VAL	2644	32.334	18.137	59.130	1.00	21.83
ATOM	17762	N	ARG	2645	32.737	30.733	60.689	1.00	24.91
ATOM	17763	CA	ARG	2645	32.178	30.740	60.836	1.00	27.28
ATOM	17764	CB	ARG	2645	32.136	32.037	61.094	1.00	27.82
ATOM	17765	CG	ARG	2645	32.144	31.913	60.832	1.00	28.56
ATOM	17766	CD	ARG	2645	31.296	34.760	60.187	1.00	31.06
ATOM	17767	NE	ARG	2645	31.361	34.739	60.176	1.00	34.28
ATOM	17768	CZ	ARG	2645	31.361	34.739	60.176	1.00	36.23
ATOM	17769	NH1	ARG	2645	28.301	31.001	60.836	1.00	34.78
ATOM	17770	NH2	ARG	2645	28.130	31.001	60.137	1.00	37.25
ATOM	17771	C	ARG	2645	34.343	30.903	60.836	1.00	27.28
ATOM	17772	O	ARG	2645	35.361	30.903	60.149	1.00	19.75
ATOM	17773	N	GLN	2646	31.301	29.913	62.032	1.00	27.64
ATOM	17774	CA	GLN	2646	34.411	19.763	63.133	1.00	27.15
ATOM	17775	CB	GLN	2646	31.428	19.143	63.134	1.00	31.32
ATOM	17776	CG	GLN	2646	34.331	18.733	63.136	1.00	36.87
ATOM	17777	CD	GLN	2646	31.331	18.733	63.137	1.00	41.82
ATOM	17778	OE1	GLN	2646	31.334	18.734	63.138	1.00	43.32
ATOM	17779	NE2	GLN	2646	33.333	17.733	63.132	1.00	43.04
ATOM	17780	C	GLN	2646	31.187	28.633	63.139	1.00	27.46
ATOM	17781	O	GLN	2646	36.351	17.833	63.135	1.00	24.55
ATOM	17782	N	TYR	2647	34.406	17.321	63.135	1.00	24.93
ATOM	17783	CA	TYR	2647	34.946	25.936	61.719	1.00	27.35
ATOM	17784	CB	TYR	2647	33.831	25.113	61.934	1.00	31.15
ATOM	17785	CG	TYR	2647	34.339	23.943	63.134	1.00	31.81
ATOM	17786	CD1	TYR	2647	35.111	21.937	63.138	1.00	37.12
ATOM	17787	OE1	TYR	2647	35.339	21.933	63.131	1.00	31.90
ATOM	17788	CD2	TYR	2647	34.113	23.763	58.846	1.00	21.36
ATOM	17789	OE2	TYR	2647	34.355	21.633	58.160	1.00	21.37
ATOM	17790	CZ	TYR	2647	35.136	21.633	57.327	1.00	24.37
ATOM	17791	OH	TYR	2647	35.133	20.353	57.149	1.00	21.37
ATOM	17792	C	TYR	2647	36.133	20.131	60.861	1.00	23.93
ATOM	17793	O	TYR	2647	37.131	25.333	61.964	1.00	21.34
ATOM	17794	N	MET	2648	36.113	21.933	63.039	1.00	23.64
ATOM	17795	CA	MET	2648	37.231	21.333	63.033	1.00	21.39
ATOM	17796	CB	MET	2648	36.341	23.368	61.968	1.00	21.61
ATOM	17797	CG	MET	2648	35.343	21.368	67.030	1.00	23.72
ATOM	17798	SD	MET	2648	37.131	24.333	66.019	1.00	23.37
ATOM	17799	OE	MET	2648	36.341	23.368	64.933	1.00	23.14
ATOM	17800	C	MET	2648	37.131	23.368	63.933	1.00	21.37
ATOM	17801	O	MET	2648	38.133	21.368	59.133	1.00	21.37
ATOM	17802	N	ALA	2649	33.133	23.368	60.861	1.00	23.72
ATOM	17803	CA	ALA	2649	33.181	24.303	61.633	1.00	23.11
ATOM	17804	CB	ALA	2649	33.603	33.311	62.575	1.00	23.13
ATOM	17805	C	ALA	2649	33.901	23.133	62.537	1.00	23.13
ATOM	17806	O	ALA	2649	31.133	23.133	62.537	1.00	23.14
ATOM	17807	N	GLU	2650	33.133	27.368	63.233	1.00	21.37
ATOM	17808	CA	GLU	2650	33.713	26.333	64.133	1.00	21.37
ATOM	17809	CB	GLU	2650	33.623	25.668	64.981	1.00	23.35
ATOM	17810	CG	GLU	2650	38.203	26.463	66.203	1.00	23.63
ATOM	17811	CD	GLU	2650	37.113	25.799	67.014	1.00	29.34
ATOM	17812	OE1	GLU	2650	37.152	24.563	67.173	1.00	21.37
ATOM	17813	OE2	GLU	2650	36.221	26.513	67.596	1.00	33.36
ATOM	17814	C	GLU	2650	40.533	25.133	63.413	1.00	21.37
ATOM	17815	O	GLU	2650	41.433	24.133	63.413	1.00	21.37

ATOM	17-16	N	VAL	2651	40.181	25.021	62.164	1.00	26.19
ATOM	17-17	CA	VAL	2651	40.914	24.042	61.280	1.00	25.27
ATOM	17-18	CB	VAL	2651	40.163	23.681	60.678	1.00	24.96
ATOM	17-19	CG1	VAL	2651	41.063	22.849	59.179	1.00	23.43
ATOM	17-20	CG2	VAL	2651	38.891	22.960	60.411	1.00	23.49
ATOM	17-21	C	VAL	2651	42.296	24.576	61.010	1.00	25.94
ATOM	17-22	O	VAL	2651	43.279	23.816	61.032	1.00	25.81
ATOM	17-23	N	GLU	2652	42.362	25.863	60.683	1.00	27.40
ATOM	17-24	CA	GLU	2652	43.616	26.493	60.193	1.00	30.89
ATOM	17-25	CB	GLU	2652	43.343	27.865	59.665	1.00	31.63
ATOM	17-26	CG	GLU	2652	44.595	28.516	59.129	1.00	35.32
ATOM	17-27	CD	GLU	2652	44.282	29.686	58.159	1.00	33.22
ATOM	17-28	OE1	GLU	2652	45.223	30.374	57.715	1.00	40.91
ATOM	17-29	OE2	GLU	2652	43.091	29.885	57.836	1.00	40.55
ATOM	17-30	C	GLU	2652	44.614	26.638	61.438	1.00	32.09
ATOM	17-31	O	GLU	2652	45.791	26.305	61.190	1.00	32.01
ATOM	17-32	N	SER	2653	44.146	27.115	62.180	1.00	34.17
ATOM	17-33	CA	SER	2653	45.026	27.510	63.727	1.00	36.02
ATOM	17-34	CB	SER	2653	44.427	28.318	64.087	1.00	34.04
ATOM	17-35	CG	SER	2653	44.357	29.613	64.066	1.00	41.62
ATOM	17-36	C	SER	2653	45.317	29.771	64.454	1.00	33.06
ATOM	17-37	O	SER	2653	46.243	29.913	65.162	1.00	36.58
ATOM	17-38	N	GLY	2654	44.578	24.871	64.165	1.00	33.11
ATOM	17-39	CA	GLY	2654	44.754	23.479	64.789	1.00	29.91
ATOM	17-40	C	GLY	2654	43.918	21.712	66.812	1.00	27.78
ATOM	17-41	O	GLY	2654	44.111	21.102	66.025	1.00	30.25
ATOM	17-42	N	VAL	2655	42.999	24.119	60.176	1.00	26.05
ATOM	17-43	CA	VAL	2655	42.119	23.610	60.329	1.00	24.70
ATOM	17-44	CB	VAL	2655	41.290	23.117	60.832	1.00	25.65
ATOM	17-45	CG1	VAL	2655	40.191	24.948	60.883	1.00	27.66
ATOM	17-46	CG2	VAL	2655	42.196	26.371	60.199	1.00	26.98
ATOM	17-47	C	VAL	2655	41.190	21.639	60.188	1.00	23.05
ATOM	17-48	O	VAL	2655	40.821	21.135	60.121	1.00	19.84
ATOM	17-49	N	TYR	2656	40.807	23.644	60.030	1.00	23.11
ATOM	17-50	CA	TYR	2656	39.926	21.541	60.559	1.00	23.29
ATOM	17-51	CB	TYR	2656	38.554	21.004	60.163	1.00	24.18
ATOM	17-52	CG	TYR	2656	37.625	20.907	64.795	1.00	26.15
ATOM	17-53	CD1	TYR	2656	37.653	20.002	65.155	1.00	26.74
ATOM	17-54	CD2	TYR	2656	36.372	19.000	65.889	1.00	27.18
ATOM	17-55	CD3	TYR	2656	37.384	20.646	63.450	1.00	26.60
ATOM	17-56	CE2	TYR	2656	36.602	19.543	63.169	1.00	26.10
ATOM	17-57	CZ	TYR	2656	36.052	18.774	64.048	1.00	28.77
ATOM	17-58	OH	TYR	2656	35.298	17.943	63.893	1.00	29.76
ATOM	17-59	C	TYR	2656	40.539	20.739	64.120	1.00	32.07
ATOM	17-60	O	TYR	2656	40.371	21.308	63.119	1.00	31.40
ATOM	17-61	N	PRO	2657	40.575	19.417	64.559	1.00	23.11
ATOM	17-62	CD	PRO	2657	40.439	19.434	63.551	1.00	25.30
ATOM	17-63	CA	PRO	2657	40.064	18.632	65.827	1.00	25.15
ATOM	17-64	CB	PRO	2657	39.863	17.066	65.193	1.00	25.49
ATOM	17-65	CG	PRO	2657	40.930	17.153	64.167	1.00	26.87
ATOM	17-66	C	PRO	2657	40.987	18.704	67.147	1.00	26.33
ATOM	17-67	O	PRO	2657	42.194	18.937	66.134	1.00	24.35
ATOM	17-68	N	GLY	2658	40.402	18.451	68.112	1.00	28.19
ATOM	17-69	CA	GLY	2658	41.175	18.434	69.135	1.00	29.27
ATOM	17-70	C	GLY	2658	41.405	16.930	69.170	1.00	31.15
ATOM	17-71	O	GLY	2658	41.371	18.038	69.175	1.00	29.16
ATOM	17-72	N	GLU	2659	42.039	18.835	71.105	1.00	31.72
ATOM	17-73	CA	GLU	2659	42.328	19.136	71.168	1.00	33.80
ATOM	17-74	CB	GLU	2659	43.186	19.638	72.845	1.00	35.83
ATOM	17-75	CG	GLU	2659	43.629	19.319	73.413	1.00	38.37
ATOM	17-76	CH	GLU	2659	44.583	19.635	72.176	1.00	40.89
ATOM	17-77	OE1	GLU	2659	44.743	19.319	73.542	1.00	41.36
ATOM	17-78	OE2	GLU	2659	45.119	18.115	71.182	1.00	41.00
ATOM	17-79	C	GLU	2659	41.013	18.716	71.374	1.00	33.45
ATOM	17-80	O	GLU	2659	41.913	18.114	71.823	1.00	33.66
ATOM	17-81	N	GLU	2660	39.981	19.184	72.193	1.00	41.34
ATOM	17-82	CA	GLU	2660	38.662	18.861	72.187	1.00	41.69
ATOM	17-83	CB	GLU	2660	37.738	18.899	73.136	1.00	46.58
ATOM	17-84	CG	GLU	2660	38.411	17.663	73.118	1.00	41.67
ATOM	17-85	CH	GLU	2660	38.836	18.147	73.339	1.00	43.50
ATOM	17-86	OE1	GLU	2660	37.941	18.737	73.186	1.00	43.66
ATOM	17-87	OE2	GLU	2660	43.053	18.409	72.727	1.00	44.50
ATOM	17-88	C	GLU	2660	38.057	14.318	71.153	1.00	33.13
ATOM	17-89	O	GLU	2660	37.165	18.482	71.387	1.00	33.50
ATOM	17-90	N	HIS	2661	38.526	14.827	70.095	1.00	31.39
ATOM	17-91	CA	HIS	2661	38.619	14.419	68.792	1.00	29.37
ATOM	17-92	CB	HIS	2661	37.737	13.843	67.793	1.00	28.29

ATOM	17893	CG	HIS	2661	36.937	16.708	63.537	1.00	29.26
ATOM	17894	CD2	HIS	2661	37.231	17.984	63.884	1.00	28.56
ATOM	17895	ND1	HIS	2661	35.613	16.517	63.668	1.00	29.92
ATOM	17896	CF1	HIS	2661	35.176	17.630	63.291	1.00	29.59
ATOM	17897	NE2	HIS	2661	36.088	18.535	63.411	1.00	28.86
ATOM	17898	C	HIS	2661	38.983	13.480	63.636	1.00	28.74
ATOM	17899	O	HIS	2661	38.753	13.119	63.934	1.00	28.41
ATOM	17900	N	SER	2662	40.055	13.088	63.901	1.00	27.65
ATOM	17901	CA	SER	2662	41.077	12.226	63.171	1.00	27.15
ATOM	17902	CB	SER	2662	41.453	12.873	63.346	1.00	24.62
ATOM	17903	OG	SER	2662	41.567	14.139	67.734	1.00	24.83
ATOM	17904	C	SER	2662	41.123	10.800	63.711	1.00	27.87
ATOM	17905	O	SER	2662	40.798	10.541	63.872	1.00	28.57
ATOM	17906	N	PHE	2663	41.563	9.876	67.857	1.00	27.15
ATOM	17907	CA	PHE	2663	41.663	8.472	63.231	1.00	27.58
ATOM	17908	CB	PHE	2663	41.997	7.581	67.195	1.00	28.72
ATOM	17909	CG	PHE	2663	39.567	7.795	67.099	1.00	28.64
ATOM	17910	CD1	PHE	2663	38.943	8.415	65.980	1.00	28.12
ATOM	17911	CD2	PHE	2663	37.664	7.369	63.127	1.00	23.60
ATOM	17912	CE1	PHE	2663	37.543	8.555	65.879	1.00	23.13
ATOM	17913	CE2	PHE	2663	37.784	7.545	63.635	1.00	23.38
ATOM	17914	CZ	PHE	2663	37.536	8.132	66.999	1.00	27.69
ATOM	17915	C	PHE	2663	41.147	8.070	63.137	1.00	19.13
ATOM	17916	O	PHE	2663	41.009	8.662	67.643	1.00	18.67
ATOM	17917	N	HIS	2664	47.415	7.081	69.354	1.00	30.62
ATOM	17918	CA	HIS	2664	41.793	6.510	69.335	1.00	13.11
ATOM	17919	CB	HIS	2664	41.393	7.138	70.631	1.00	10.47
ATOM	17920	CG	HIS	2664	41.698	8.810	70.559	1.00	11.82
ATOM	17921	CD2	HIS	2664	41.143	9.617	71.109	1.00	11.31
ATOM	17922	ND1	HIS	2664	41.670	9.119	69.743	1.00	31.86
ATOM	17923	CE1	HIS	2664	40.704	10.433	69.877	1.00	12.26
ATOM	17924	NE2	HIS	2664	41.787	10.715	70.761	1.00	11.44
ATOM	17925	C	HIS	2664	41.810	9.960	69.347	1.00	24.16
ATOM	17926	O	HIS	2664	41.904	8.517	69.013	1.00	34.77
ATOM	17927	XT	HIS	2664	41.815	8.436	69.648	1.00	14.37
ATOM	17928	C	PEL	2665	37.143	11.817	55.862	1.00	40.74
ATOM	17929	N	PEL	2665	37.961	11.715	54.531	1.00	41.02
ATOM	17930	CA	PEL	2665	37.077	13.146	52.870	1.00	41.20
ATOM	17931	CB	PEL	2665	35.387	11.202	54.712	1.00	42.46
ATOM	17932	C	PEL	2665	37.136	9.899	51.510	1.00	45.12
ATOM	17933	N	PEL	2665	37.110	10.836	53.450	1.00	19.49
ATOM	17934	OL	PEL	2665	37.163	9.838	51.681	1.00	38.46
ATOM	17935	CL	PEL	2665	36.515	11.146	53.130	1.00	17.68
ATOM	17936	OB	PEL	2665	37.139	12.135	53.830	1.00	35.37
ATOM	17937	OD	PEL	2665	37.039	10.519	52.357	1.00	34.01
ATOM	17938	CB	MET	2701	31.839	13.058	-4.231	1.00	73.64
ATOM	17939	CG	MET	2701	37.731	17.961	-3.594	1.00	74.75
ATOM	17940	CD	MET	2701	37.148	13.478	-4.183	1.00	76.63
ATOM	17941	CE	MET	2701	37.494	16.017	-5.398	1.00	76.51
ATOM	17942	C	MET	2701	37.675	13.015	-4.580	1.00	71.20
ATOM	17943	O	MET	2701	31.677	13.329	-5.182	1.00	71.65
ATOM	17944	N	MET	2701	37.341	13.824	-2.313	1.00	71.84
ATOM	17945	CA	MET	2701	37.144	13.060	-3.787	1.00	72.13
ATOM	17946	N	LYS	2702	37.136	16.777	-4.573	1.00	69.46
ATOM	17947	CA	LYS	2702	37.420	15.710	-5.314	1.00	67.58
ATOM	17948	CB	LYS	2702	38.130	15.500	-6.657	1.00	68.24
ATOM	17949	CG	LYS	2702	37.117	16.745	-7.332	1.00	69.09
ATOM	17950	CD	LYS	2702	37.134	17.196	-8.031	1.00	69.85
ATOM	17951	CE	LYS	2702	37.138	16.208	-9.025	1.00	70.29
ATOM	17952	CF	LYS	2702	37.138	16.690	-9.349	1.00	70.64
ATOM	17953	C	LYS	2702	37.139	14.356	-4.386	1.00	65.53
ATOM	17954	O	LYS	2702	37.139	14.312	-4.130	1.00	66.40
ATOM	17955	N	PRO	2703	37.139	14.356	-4.136	1.00	62.79
ATOM	17956	CA	PRO	2703	37.139	13.174	-2.177	1.00	62.13
ATOM	17957	CB	PRO	2703	37.139	13.137	-2.353	1.00	60.33
ATOM	17958	CG	PRO	2703	37.139	13.134	-1.321	1.00	60.96
ATOM	17959	CH	PRO	2703	37.139	13.500	-1.145	1.00	61.34
ATOM	17960	C	PRO	2703	37.139	15.784	-1.867	1.00	57.10
ATOM	17961	O	PRO	2703	37.139	15.402	-1.523	1.00	56.61
ATOM	17962	N	THR	2704	37.139	16.439	-1.711	1.00	54.53
ATOM	17963	CA	THR	2704	37.139	16.729	-1.126	1.00	51.38
ATOM	17964	CB	THR	2704	37.139	16.695	-1.603	1.00	51.73
ATOM	17965	CG1	THR	2704	37.139	16.147	-1.328	1.00	57.06
ATOM	17966	CG2	THR	2704	37.139	16.144	-1.140	1.00	50.43
ATOM	17967	C	THR	2704	37.139	15.647	-0.834	1.00	49.86
ATOM	17968	O	THR	2704	37.139	15.571	-1.063	1.00	48.30
ATOM	17969	N	THR	2704	37.139	14.815	-1.537	1.00	48.17

ATOM	17970	CA	THR	2705	37.040	13.743	1.410	1.00	47.18
ATOM	17971	CB	THR	2705	37.087	12.297	0.664	1.00	46.54
ATOM	17972	CG1	THR	2705	38.071	12.459	-0.275	1.00	45.94
ATOM	17973	CG2	THR	2705	35.778	12.081	0.451	1.00	46.54
ATOM	17974	C	THR	2705	38.472	14.017	1.695	1.00	46.48
ATOM	17975	O	THR	2705	39.061	15.016	1.664	1.00	45.98
ATOM	17976	N	ILE	2706	38.875	15.119	2.664	1.00	45.87
ATOM	17977	CA	ILE	2706	40.180	13.245	3.502	1.00	45.37
ATOM	17978	CB	ILE	2706	40.461	12.049	4.478	1.00	45.74
ATOM	17979	CG2	ILE	2706	41.744	12.292	5.223	1.00	45.06
ATOM	17980	CG1	ILE	2706	39.287	11.852	5.400	1.00	47.14
ATOM	17981	CD1	ILE	2706	39.280	10.579	6.232	1.00	47.98
ATOM	17982	C	ILE	2706	41.278	12.293	7.443	1.00	45.87
ATOM	17983	O	ILE	2706	42.261	12.834	8.676	1.00	44.76
ATOM	17984	N	SER	2707	40.992	12.719	1.278	1.00	45.94
ATOM	17985	CA	SER	2707	41.949	12.695	0.173	1.00	46.24
ATOM	17986	CB	SER	2707	41.178	11.997	-1.045	1.00	46.04
ATOM	17987	CG	SER	2707	41.374	10.650	-0.738	1.00	47.56
ATOM	17988	C	SER	2707	42.119	14.110	-0.214	1.00	45.55
ATOM	17989	O	SER	2707	43.115	14.257	-0.489	1.00	44.61
ATOM	17990	N	LEU	2708	41.372	15.630	-0.234	1.00	43.78
ATOM	17991	CA	LEU	2708	41.169	16.421	-0.590	1.00	46.61
ATOM	17992	CB	LEU	2708	40.470	17.250	-0.528	1.00	47.35
ATOM	17993	CG	LEU	2708	39.964	15.852	-1.881	1.00	47.61
ATOM	17994	CD1	LEU	2708	38.612	16.619	-1.609	1.00	42.53
ATOM	17995	CD2	LEU	2708	40.940	18.771	-2.336	1.00	48.54
ATOM	17996	C	LEU	2708	42.731	17.051	-0.307	1.00	46.78
ATOM	17997	O	LEU	2708	43.739	17.671	-0.237	1.00	48.13
ATOM	17998	N	LEU	2708	42.119	14.860	1.640	1.00	47.64
ATOM	17999	CA	LEU	2709	43.449	17.451	2.606	1.00	48.33
ATOM	18000	CB	LEU	2709	42.935	17.233	4.044	1.00	42.81
ATOM	18001	CG	LEU	2709	41.135	15.781	4.267	1.00	48.04
ATOM	18002	CD1	LEU	2709	42.169	17.497	5.827	1.00	46.71
ATOM	18003	CD2	LEU	2709	42.110	19.270	4.098	1.00	48.84
ATOM	18004	C	LEU	2709	44.174	16.829	2.195	1.00	49.18
ATOM	18005	O	LEU	2709	45.131	17.451	2.606	1.00	48.60
ATOM	18006	N	GLN	2710	44.175	15.589	2.607	1.00	50.94
ATOM	18007	CA	GLN	2710	46.174	14.860	1.637	1.00	52.96
ATOM	18008	CB	GLN	2710	45.933	12.391	1.637	1.00	54.73
ATOM	18009	CG	GLN	2710	47.177	11.526	1.638	1.00	57.12
ATOM	18010	CD	GLN	2710	47.171	11.415	3.037	1.00	58.97
ATOM	18011	OE1	GLN	2710	48.112	13.421	3.642	1.00	60.04
ATOM	18012	NE2	GLN	2710	47.174	11.198	3.637	1.00	59.77
ATOM	18013	C	GLN	2710	46.179	15.474	0.697	1.00	53.46
ATOM	18014	O	GLN	2710	48.176	15.790	0.243	1.00	53.66
ATOM	18015	N	LYS	2711	46.174	15.635	-0.441	1.00	53.94
ATOM	18016	CA	LYS	2711	46.174	16.306	-1.636	1.00	54.73
ATOM	18017	CB	LYS	2711	45.177	16.277	-2.739	1.00	55.71
ATOM	18018	CG	LYS	2711	46.421	16.833	-4.075	1.00	55.82
ATOM	18019	CD	LYS	2711	45.176	17.553	-4.955	1.00	57.13
ATOM	18020	CE	LYS	2711	44.176	16.585	-5.503	1.00	57.77
ATOM	18021	NZ	LYS	2711	43.174	17.107	-6.407	1.00	58.73
ATOM	18022	C	LYS	2711	47.173	17.614	-1.333	1.00	54.46
ATOM	18023	O	LYS	2711	48.172	18.025	-1.792	1.00	55.11
ATOM	18024	N	TYR	2712	46.173	13.354	-0.558	1.00	54.70
ATOM	18025	CA	TYR	2712	46.171	19.721	-0.193	1.00	54.40
ATOM	18026	CB	TYR	2712	45.173	20.429	0.699	1.00	54.41
ATOM	18027	CG	TYR	2712	44.170	20.841	-0.359	1.00	55.14
ATOM	18028	CD1	TYR	2712	43.170	21.144	0.423	1.00	55.11
ATOM	18029	CD2	TYR	2712	42.175	21.137	-0.971	1.00	55.78
ATOM	18030	CE1	TYR	2712	44.164	20.847	-1.153	1.00	55.12
ATOM	18031	CE2	TYR	2712	43.179	21.137	-2.153	1.00	55.79
ATOM	18032	CZ	TYR	2712	42.176	21.833	-1.153	1.00	55.79
ATOM	18033	CH	TYR	2712	41.290	22.121	-2.145	1.00	55.45
ATOM	18034	O	TYR	2712	42.177	18.821	0.195	1.00	54.16
ATOM	18035	N	TYR	2712	49.013	20.704	0.191	1.00	54.16
ATOM	18036	C	LYS	2713	48.435	13.927	1.150	1.00	54.47
ATOM	18037	CA	LYS	2713	47.717	18.958	2.175	1.00	55.19
ATOM	18038	CB	LYS	2713	49.787	17.863	3.141	1.00	53.74
ATOM	18039	CG	LYS	2713	51.072	17.863	4.156	1.00	52.49
ATOM	18040	CH	LYS	2713	50.915	17.134	5.377	1.00	50.87
ATOM	18041	CE	LYS	2713	52.169	17.375	6.418	1.00	50.14
ATOM	18042	NZ	LYS	2713	51.974	16.777	7.405	1.00	49.12
ATOM	18043	C	LYS	2713	50.935	18.805	1.132	1.00	55.39
ATOM	18044	O	LYS	2713	51.969	19.390	1.171	1.00	56.25
ATOM	18045	N	GLN	2714	50.753	18.947	0.161	1.00	57.18
ATOM	18046	CA	GLN	2714	51.870	17.933	-0.811	1.00	58.36

ATOM	18047	CB	GLN	2714	51.438	16.762	-1.819	1.00	59.42
ATOM	18048	CG	GLN	2714	51.254	15.396	-1.216	1.00	61.57
ATOM	18049	CI	GLN	2714	50.997	14.336	-2.270	1.00	62.96
ATOM	18050	OE1	GLN	2714	51.812	14.134	-3.171	1.00	64.00
ATOM	18051	NE2	GLN	2714	49.859	13.656	-2.166	1.00	63.63
ATOM	13012	C	GLN	2714	52.073	19.146	-1.551	1.00	58.50
ATOM	13013	O	GLN	2714	53.217	19.863	-1.722	1.00	59.24
ATOM	13014	N	GLU	2715	50.992	19.785	-1.986	1.00	58.54
ATOM	18055	CA	GLU	2715	51.082	21.042	-2.714	1.00	58.89
ATOM	18056	CE	GLU	2715	49.783	21.234	-3.477	1.00	58.02
ATOM	18057	CG	GLU	2715	49.312	20.144	-4.373	1.00	58.98
ATOM	18058	CD	GLU	2715	48.032	20.381	-5.034	1.00	60.87
ATOM	18059	OE1	GLU	2715	47.061	20.683	-4.309	1.00	61.95
ATOM	18060	OE2	GLU	2715	47.946	20.160	-6.274	1.00	61.16
ATOM	18061	C	GLU	2715	51.351	22.189	-1.761	1.00	58.97
ATOM	18062	O	GLU	2715	51.366	23.260	-2.169	1.00	58.41
ATOM	18063	N	LYS	2716	51.563	21.874	-0.489	1.00	58.61
ATOM	18064	CA	LYS	2716	51.826	22.882	0.531	1.00	58.78
ATOM	18065	CB	LYS	2716	53.169	23.338	0.244	1.00	58.70
ATOM	18066	CG	LYS	2716	54.321	22.854	-0.032	1.00	58.65
ATOM	18067	CD	LYS	2716	54.665	21.235	-1.178	1.00	61.37
ATOM	18068	CE	LYS	2716	55.782	20.255	0.853	1.00	61.03
ATOM	18069	CF	LYS	2716	57.003	21.251	0.359	1.00	61.83
ATOM	18070	C	LYS	2716	52.721	22.224	0.561	1.00	58.16
ATOM	18071	O	LYS	2716	52.926	23.247	1.020	1.00	58.70
ATOM	18072	N	LYS	2717	49.548	21.254	0.665	1.00	57.44
ATOM	18073	CA	LYS	2717	48.400	24.141	0.024	1.00	58.21
ATOM	18074	CB	LYS	2717	47.561	24.983	-1.167	1.00	57.20
ATOM	18075	CG	LYS	2717	47.344	25.248	-1.461	1.00	58.48
ATOM	18076	CD	LYS	2717	48.574	24.212	-2.679	1.00	59.36
ATOM	18077	CE	LYS	2717	46.441	24.632	-3.925	1.00	60.27
ATOM	18078	CF	LYS	2717	48.681	24.234	-5.174	1.00	58.88
ATOM	18079	C	LYS	2717	47.604	24.268	1.326	1.00	55.15
ATOM	18080	O	LYS	2717	46.819	23.443	1.536	1.00	55.14
ATOM	18081	N	ARG	2718	47.820	25.256	1.192	1.00	53.27
ATOM	18082	CA	ARG	2718	47.115	25.211	1.483	1.00	52.15
ATOM	18083	CB	ARG	2718	47.728	26.232	4.334	1.00	52.42
ATOM	18084	CG	ARG	2718	48.122	26.222	4.849	1.00	53.26
ATOM	18085	CH	ARG	2718	49.744	27.212	5.549	1.00	54.70
ATOM	18086	NH	ARG	2718	50.125	28.462	4.605	1.00	55.74
ATOM	18087	CE	ARG	2718	50.812	29.232	4.944	1.00	56.58
ATOM	18088	NH1	ARG	2718	51.123	29.222	6.204	1.00	56.22
ATOM	18089	NH2	ARG	2718	51.121	30.254	4.021	1.00	57.45
ATOM	18090	C	ARG	2718	45.627	25.612	3.328	1.00	50.84
ATOM	18091	O	ARG	2718	45.187	26.468	2.565	1.00	50.29
ATOM	18092	N	PHE	2719	44.861	24.212	4.067	1.00	48.72
ATOM	18093	CA	PHE	2719	43.426	24.871	4.016	1.00	46.09
ATOM	18094	CB	PHE	2719	42.852	23.452	3.674	1.00	47.13
ATOM	18095	CG	PHE	2719	42.311	22.336	3.565	1.00	45.19
ATOM	18096	CD1	PHE	2719	42.764	22.122	5.788	1.00	45.63
ATOM	18097	CD2	PHE	2719	44.422	21.232	4.193	1.00	45.52
ATOM	18098	CE1	PHE	2719	43.227	21.123	6.628	1.00	45.28
ATOM	18099	CE2	PHE	2719	44.944	20.244	5.024	1.00	45.72
ATOM	18100	CF	PHE	2719	44.362	20.232	6.245	1.00	45.49
ATOM	18101	C	PHE	2719	42.782	25.222	5.316	1.00	44.37
ATOM	18102	O	PHE	2719	43.494	25.222	6.381	1.00	43.11
ATOM	18103	N	ALA	2720	41.561	25.222	5.223	1.00	42.30
ATOM	18104	CA	ALA	2720	40.812	26.243	6.381	1.00	41.78
ATOM	18105	CB	ALA	2720	40.243	27.222	6.049	1.00	41.45
ATOM	18106	C	ALA	2720	39.718	25.422	6.860	1.00	40.79
ATOM	18107	O	ALA	2720	39.110	24.222	6.065	1.00	38.22
ATOM	18108	N	THR	2721	38.445	25.243	6.122	1.00	40.42
ATOM	18109	CA	THR	2721	38.429	24.222	8.267	1.00	38.22
ATOM	18110	CB	THR	2721	39.074	23.222	6.822	1.00	39.28
ATOM	18111	CG1	THR	2721	40.236	22.222	8.267	1.00	41.22
ATOM	18112	CG2	THR	2721	37.936	22.243	10.073	1.00	41.39
ATOM	18113	C	THR	2721	37.620	25.243	6.267	1.00	37.22
ATOM	18114	O	THR	2721	38.181	26.243	15.262	1.00	37.22
ATOM	18115	N	ILE	2722	36.404	25.233	10.016	1.00	34.57
ATOM	18116	CA	ILE	2722	35.575	25.233	10.267	1.00	33.22
ATOM	18117	CB	ILE	2722	34.856	27.214	10.112	1.00	33.44
ATOM	18118	CG1	ILE	2722	33.767	26.219	9.222	1.00	32.22
ATOM	18119	CG2	ILE	2722	34.256	28.233	11.262	1.00	33.22
ATOM	18120	CD1	ILE	2722	33.737	29.233	12.411	1.00	33.22
ATOM	18121	C	ILE	2722	34.539	25.121	11.262	1.00	33.22
ATOM	18122	O	ILE	2722	34.165	24.048	11.162	1.00	32.22
ATOM	18123	N	THR	2723	34.222	25.222	12.262	1.00	32.22

ATOM	18124	CA	THR	2723	37.099	24.861	13.563	1.00	30.50
ATOM	18125	CB	THR	2723	37.120	25.275	15.044	1.00	31.78
ATOM	18126	OG1	THR	2723	37.810	26.669	15.150	1.00	33.34
ATOM	18127	CG	THR	2723	34.489	25.014	15.648	1.00	31.14
ATOM	18128	C	THR	2723	31.716	25.143	12.996	1.00	29.83
ATOM	18129	O	THR	2723	31.491	26.174	12.360	1.00	29.14
ATOM	18130	N	ALA	2724	30.794	24.214	13.218	1.00	27.67
ATOM	18131	CA	ALA	2724	29.428	24.364	12.739	1.00	26.26
ATOM	18132	CB	ALA	2724	29.332	23.966	11.271	1.00	26.45
ATOM	18133	C	ALA	2724	28.556	23.462	13.594	1.00	26.25
ATOM	18134	O	ALA	2724	28.591	22.388	13.999	1.00	24.53
ATOM	18135	N	TYR	2725	27.336	23.905	13.877	1.00	25.34
ATOM	18136	CA	TYR	2725	26.422	23.126	14.702	1.00	25.41
ATOM	18137	CP	TYR	2725	26.441	23.634	16.145	1.00	25.62
ATOM	18138	CG	TYR	2725	27.618	23.940	16.681	1.00	25.52
ATOM	18139	CD1	TYR	2725	28.264	25.157	16.791	1.00	23.23
ATOM	18140	CE1	TYR	2725	29.534	25.348	17.278	1.00	23.51
ATOM	18141	CD2	TYR	2725	28.676	22.916	17.071	1.00	24.46
ATOM	18142	CE2	TYR	2725	29.951	22.195	17.557	1.00	23.31
ATOM	18143	CM	TYR	2725	30.157	24.515	17.659	1.00	23.75
ATOM	18144	CH	TYR	2725	31.637	24.797	18.149	1.00	23.39
ATOM	18145	O	TYR	2725	34.996	27.188	14.181	1.00	23.48
ATOM	18146	C	TYR	2725	24.073	22.716	14.847	1.00	25.50
ATOM	18147	N	ASP	2726	24.812	23.733	12.999	1.00	24.59
ATOM	18148	CA	ASP	2726	23.475	21.895	12.424	1.00	25.15
ATOM	18149	CB	ASP	2726	21.736	21.085	13.049	1.00	24.48
ATOM	18150	CG	ASP	2726	21.368	26.474	12.701	1.00	27.30
ATOM	18151	CH	ASP	2726	21.278	26.844	11.529	1.00	27.82
ATOM	18152	OD1	ASP	2726	21.954	27.055	13.608	1.00	26.84
ATOM	18153	C	ASP	2726	21.463	24.922	12.606	1.00	25.19
ATOM	18154	O	ASP	2726	24.482	24.317	10.282	1.00	25.88
ATOM	18155	N	TYR	2727	21.289	23.792	10.329	1.00	25.18
ATOM	18156	CA	TYR	2727	21.080	23.355	8.850	1.00	23.78
ATOM	18157	CB	TYR	2727	21.607	23.691	8.575	1.00	23.33
ATOM	18158	CG	TYR	2727	21.215	23.641	7.156	1.00	32.36
ATOM	18159	CH	TYR	2727	21.418	23.031	6.117	1.00	33.43
ATOM	18160	CE1	TYR	2727	20.949	21.348	4.638	1.00	35.74
ATOM	18161	CE2	TYR	2727	19.636	21.127	6.853	1.00	32.74
ATOM	18162	CE3	TYR	2727	19.266	21.301	5.556	1.00	34.73
ATOM	18163	CH	TYR	2727	19.473	24.581	4.535	1.00	34.95
ATOM	18164	CD	TYR	2727	19.090	24.390	3.256	1.00	36.38
ATOM	18165	C	TYR	2727	21.481	21.185	8.261	1.00	28.49
ATOM	18166	O	TYR	2727	21.244	21.219	7.296	1.00	26.62
ATOM	18167	N	SER	2728	21.940	26.722	8.798	1.00	29.56
ATOM	18168	CA	SER	2728	21.215	27.601	8.270	1.00	31.15
ATOM	18169	CB	SER	2728	21.606	28.670	9.174	1.00	30.32
ATOM	18170	CG	SER	2728	21.195	28.604	9.127	1.00	30.93
ATOM	18171	C	SER	2728	21.691	27.885	8.963	1.00	32.53
ATOM	18172	O	SER	2728	21.151	28.917	6.927	1.00	34.08
ATOM	18173	N	PHE	2729	24.441	21.974	9.152	1.00	33.01
ATOM	18174	CA	PHE	2729	25.460	24.263	9.026	1.00	34.03
ATOM	18175	CB	PHE	2729	24.514	24.373	10.462	1.00	32.92
ATOM	18176	CG	PHE	2729	26.244	24.683	11.084	1.00	33.06
ATOM	18177	CH	PHE	2729	25.190	24.324	11.909	1.00	32.75
ATOM	18178	CD2	PHE	2729	27.041	30.300	10.816	1.00	33.37
ATOM	18179	CE1	PHE	2729	21.334	21.346	12.601	1.00	33.58
ATOM	18180	CE2	PHE	2729	26.793	32.024	11.450	1.00	33.46
ATOM	18181	CE	PHE	2729	25.739	32.148	12.315	1.00	33.47
ATOM	18182	C	PHE	2729	26.598	27.341	8.171	1.00	34.90
ATOM	18183	O	PHE	2729	27.417	27.414	7.323	1.00	35.33
ATOM	18184	N	ALA	2730	26.319	25.958	8.367	1.00	34.77
ATOM	18185	CA	ALA	2730	26.668	24.919	7.582	1.00	34.81
ATOM	18186	CB	ALA	2730	26.495	23.944	7.943	1.00	34.61
ATOM	18187	C	ALA	2730	26.744	25.198	6.099	1.00	34.77
ATOM	18188	O	ALA	2730	27.838	25.764	5.175	1.00	34.75
ATOM	18189	N	LYS	2731	25.540	25.659	5.777	1.00	35.58
ATOM	18190	CA	LYS	2731	25.154	25.785	4.437	1.00	36.11
ATOM	18191	CB	LYS	2731	23.657	26.294	4.361	1.00	37.50
ATOM	18192	CG	LYS	2731	23.151	26.818	3.033	1.00	38.67
ATOM	18193	CH	LYS	2731	23.127	25.746	1.977	1.00	39.81
ATOM	18194	CE	LYS	2731	22.524	26.178	0.685	1.00	42.74
ATOM	18195	CD	LYS	2731	22.418	25.327	-0.261	1.00	43.93
ATOM	18196	C	LYS	2731	25.938	27.189	3.909	1.00	36.82
ATOM	18197	O	LYS	2731	26.426	27.204	2.777	1.00	35.65
ATOM	18198	N	LEU	2732	26.048	28.198	4.766	1.00	37.43
ATOM	18199	CA	LEU	2732	26.747	29.431	4.444	1.00	38.34
ATOM	18200	CB	LEU	2732	26.576	30.449	5.115	1.00	38.63

ATOM	18201	CG	LEU	2732	27.150	31.858	5.367	1.00	38.74
ATOM	18202	CD1	LEU	2732	26.427	32.832	6.281	1.00	37.58
ATOM	18203	CD2	LEU	2732	29.643	31.813	5.652	1.00	38.39
ATOM	18204	C	LEU	2732	28.242	29.165	4.179	1.00	38.99
ATOM	18205	O	LEU	2732	28.830	29.742	3.264	1.00	39.61
ATOM	18206	N	PHE	2733	28.862	28.292	4.976	1.00	38.38
ATOM	18207	CA	PHE	2733	31.258	27.992	4.793	1.00	39.33
ATOM	18208	CB	PHE	2733	32.828	27.199	5.984	1.00	38.53
ATOM	18209	CG	PHE	2733	30.621	27.870	7.314	1.00	38.08
ATOM	18210	CD1	PHE	2733	32.611	29.241	7.459	1.00	37.35
ATOM	18211	CD2	PHE	2733	30.167	27.113	8.450	1.00	36.25
ATOM	18212	CE1	PHE	2733	30.932	29.856	8.698	1.00	36.41
ATOM	18213	CE2	PHE	2733	30.104	27.729	9.651	1.00	36.51
ATOM	18214	CZ	PHE	2733	30.297	29.698	9.804	1.00	36.45
ATOM	18215	C	PHE	2733	26.809	27.192	3.514	1.00	38.89
ATOM	18216	O	PHE	2733	31.449	27.455	2.764	1.00	38.04
ATOM	18217	N	ALA	2734	29.647	26.213	1.274	1.00	40.69
ATOM	18218	CA	ALA	2734	29.946	25.366	2.094	1.00	41.63
ATOM	18219	CB	ALA	2734	28.711	24.246	1.166	1.00	41.54
ATOM	18220	C	ALA	2734	28.764	26.107	1.800	1.00	44.14
ATOM	18221	O	ALA	2734	32.277	25.606	-0.177	1.00	44.27
ATOM	18222	N	ASP	2735	28.811	27.045	1.795	1.00	41.42
ATOM	18223	CA	ASP	2735	28.764	27.849	-0.364	1.00	41.39
ATOM	18224	CB	ASP	2735	27.131	28.802	-0.185	1.00	41.94
ATOM	18225	CG	ASP	2735	25.810	28.008	-0.114	1.00	49.27
ATOM	18226	OD1	ASP	2735	25.110	27.008	-0.815	1.00	49.87
ATOM	18227	OD2	ASP	2735	24.837	28.438	-0.620	1.00	49.47
ATOM	18228	C	ASP	2735	29.871	28.778	-0.764	1.00	47.99
ATOM	18229	ASP	ASP	2735	28.779	29.013	-1.976	1.00	47.45
ATOM	18230	N	GLU	2736	30.141	29.184	0.193	1.00	48.95
ATOM	18231	CA	GLU	2736	31.711	29.906	-0.662	1.00	50.21
ATOM	18232	CB	GLU	2736	31.884	30.720	1.287	1.00	50.77
ATOM	18233	CG	GLU	2736	30.787	31.710	1.603	1.00	51.69
ATOM	18234	CD	GLU	2736	29.882	31.640	0.584	1.00	52.87
ATOM	18235	CE1	GLU	2736	31.110	33.477	0.129	1.00	54.23
ATOM	18236	CE2	GLU	2736	29.160	32.663	0.219	1.00	52.97
ATOM	18237	C	GLU	2736	32.127	29.119	-0.494	1.00	50.58
ATOM	18238	O	GLU	2736	33.110	38.435	-1.528	1.00	51.77
ATOM	18239	N	GLY	2737	23.881	28.117	0.299	1.00	50.60
ATOM	18240	CA	GLY	2737	24.181	27.321	-0.044	1.00	49.87
ATOM	18241	C	GLY	2737	24.680	26.234	1.082	1.00	49.32
ATOM	18242	O	GLY	2737	25.183	25.347	0.829	1.00	49.07
ATOM	18243	N	LEU	2738	24.181	26.735	2.133	1.00	49.01
ATOM	18244	CA	LEU	2738	24.616	25.936	3.455	1.00	48.38
ATOM	18245	CB	LEU	2738	24.182	26.638	4.765	1.00	48.66
ATOM	18246	CG	LEU	2738	25.211	27.641	5.301	1.00	47.93
ATOM	18247	CD1	LEU	2738	24.638	28.445	6.473	1.00	47.98
ATOM	18248	CD2	LEU	2738	26.583	26.942	9.736	1.00	43.25
ATOM	18249	C	LEU	2738	33.983	24.519	3.418	1.00	47.74
ATOM	18250	O	LEU	2738	32.731	24.437	3.757	1.00	43.29
ATOM	18251	N	ASN	2739	24.701	23.564	2.986	1.00	46.36
ATOM	18252	CA	ASN	2739	24.168	23.214	2.873	1.00	45.27
ATOM	18253	CB	ASN	2739	24.513	21.804	1.502	1.00	46.52
ATOM	18254	CG	ASN	2739	24.170	22.564	0.336	1.00	43.47
ATOM	18255	OD1	ASN	2739	23.930	23.142	0.315	1.00	43.82
ATOM	18256	NH1	ASN	2739	5.096	22.714	-3.586	1.00	43.29
ATOM	18257	C	ASN	2739	4.733	21.319	3.973	1.00	43.36
ATOM	18258	O	ASN	2739	24.751	20.097	3.859	1.00	41.23
ATOM	18259	N	VAL	2740	5.196	21.938	3.054	1.00	40.65
ATOM	18260	CA	VAL	2740	25.753	21.205	5.177	1.00	38.52
ATOM	18261	CB	VAL	2740	7.194	21.276	6.187	1.00	37.42
ATOM	18262	CD1	VAL	2740	7.463	20.392	7.281	1.00	38.41
ATOM	18263	CD2	VAL	2740	7.858	21.840	4.863	1.00	39.41
ATOM	18264	C	VAL	2740	9.106	21.797	7.472	1.00	37.55
ATOM	18265	O	VAL	2740	25.870	22.843	7.932	1.00	36.45
ATOM	18266	N	MET	2741	4.213	21.128	6.553	1.00	35.77
ATOM	18267	CA	MET	2741	1.536	21.603	9.281	1.00	34.14
ATOM	18268	CB	MET	2741	2.097	21.858	9.619	1.00	33.81
ATOM	18269	CG	MET	2741	21.867	24.092	8.157	1.00	34.82
ATOM	18270	CD	MET	2741	29.216	24.259	7.438	1.00	35.47
ATOM	18271	CE	MET	2741	26.583	24.296	5.711	1.00	31.73
ATOM	18272	C	MET	2741	33.731	20.666	12.469	1.00	31.08
ATOM	18273	O	MET	2741	33.730	17.461	10.461	1.00	30.77
ATOM	18274	N	LEU	2742	23.527	21.128	11.883	1.00	30.44
ATOM	18275	CA	LEU	2742	23.697	20.442	12.870	1.00	29.18
ATOM	18276	CB	LEU	2742	25.298	20.818	13.517	1.00	31.59
ATOM	18277	CD	LEU	2742	25.889	20.134	14.857	1.00	34.81

ATOM	18277	CD1	LEU	2742	34.985	20.907	15.995	1.00	26.28
ATOM	18278	CD2	LEU	2742	35.387	18.698	14.872	1.00	35.47
ATOM	18280	C	LEU	2742	32.784	20.603	13.871	1.00	28.08
ATOM	18281	O	LEU	2742	32.471	21.710	14.315	1.00	26.39
ATOM	18283	N	VAL	2743	32.154	19.479	14.265	1.00	26.29
ATOM	18285	CA	VAL	2743	31.658	19.457	15.165	1.00	24.79
ATOM	18286	CB	VAL	2743	29.928	18.504	14.765	1.00	24.91
ATOM	18288	CG1	VAL	2743	28.798	18.561	15.753	1.00	23.46
ATOM	18286	CG2	VAL	2743	29.389	18.927	12.336	1.00	23.03
ATOM	18287	C	VAL	2743	31.660	18.942	16.468	1.00	23.50
ATOM	18288	O	VAL	2743	31.184	17.751	16.765	1.00	24.49
ATOM	18289	N	GLY	2744	32.271	19.846	17.014	1.00	25.53
ATOM	18290	CA	GLY	2744	32.909	19.460	18.482	1.00	24.63
ATOM	18291	C	GLY	2744	32.668	19.678	19.759	1.00	23.51
ATOM	18292	O	GLY	2744	31.053	20.389	19.727	1.00	23.34
ATOM	18293	N	ASP	2745	32.510	19.659	20.679	1.00	26.45
ATOM	18294	CA	ASP	2745	31.844	19.170	22.109	1.00	27.04
ATOM	18295	CB	ASP	2745	32.468	18.718	21.136	1.00	28.72
ATOM	18296	CG	ASP	2745	33.867	18.332	23.283	1.00	31.56
ATOM	18297	CD	ASP	2745	34.447	19.244	23.620	1.00	31.67
ATOM	18298	CE	ASP	2745	34.637	19.469	23.473	1.00	32.16
ATOM	18299	O	ASP	2745	31.838	20.589	22.646	1.00	27.74
ATOM	18300	C	ASP	2745	31.135	20.932	23.682	1.00	28.58
ATOM	18301	N	EP	2746	32.338	21.477	21.946	1.00	27.18
ATOM	18302	CA	EP	2746	32.631	21.864	22.968	1.00	26.26
ATOM	18303	CB	EP	2746	32.541	21.670	21.787	1.00	26.45
ATOM	18304	OG	EP	2746	32.076	23.352	20.604	1.00	28.18
ATOM	18305	C	EP	2746	31.754	23.417	22.798	1.00	27.45
ATOM	18306	O	EP	2746	32.946	24.141	22.114	1.00	28.43
ATOM	18307	N	LEU	2747	30.388	21.830	21.575	1.00	23.97
ATOM	18308	CA	LEU	2747	28.988	23.244	21.501	1.00	24.80
ATOM	18309	CB	LEU	2747	28.720	22.725	20.579	1.00	24.87
ATOM	18310	CG	LEU	2747	28.137	20.328	20.530	1.00	26.83
ATOM	18311	CD	LEU	2747	28.968	20.367	21.816	1.00	25.96
ATOM	18312	CE	LEU	2747	27.901	20.656	19.534	1.00	25.34
ATOM	18313	C	LEU	2747	28.341	21.115	21.987	1.00	23.90
ATOM	18314	O	LEU	2747	27.423	21.451	21.112	1.00	23.19
ATOM	18315	N	GLY	2748	33.482	21.473	23.863	1.00	33.28
ATOM	18316	CA	GLY	2748	28.414	22.496	21.151	1.00	25.46
ATOM	18317	C	GLY	2748	28.449	21.744	23.842	1.00	27.51
ATOM	18318	O	GLY	2748	27.725	21.975	24.010	1.00	23.90
ATOM	18319	N	MET	2749	29.091	24.641	25.342	1.00	23.54
ATOM	18320	CA	MET	2749	28.411	25.970	25.930	1.00	30.31
ATOM	18321	CB	MET	2749	30.384	26.294	26.134	1.00	33.31
ATOM	18322	CG	MET	2749	31.546	25.370	27.238	1.00	35.18
ATOM	18323	SD	MET	2749	32.194	25.754	27.434	1.00	43.41
ATOM	18324	CE	MET	2749	33.162	25.552	28.533	1.00	49.70
ATOM	18325	C	MET	2749	28.798	27.044	25.042	1.00	33.17
ATOM	18326	O	MET	2749	28.003	27.863	27.161	1.00	30.78
ATOM	18327	N	THR	2750	29.152	27.029	28.767	1.00	23.64
ATOM	18328	CA	THR	2750	28.652	28.016	21.517	1.00	28.34
ATOM	18329	CB	THR	2750	29.546	28.057	21.575	1.00	23.53
ATOM	18330	OG1	THR	2750	29.124	29.130	20.711	1.00	33.35
ATOM	18331	OG2	THR	2750	29.450	28.744	20.816	1.00	23.30
ATOM	18332	C	THR	2750	27.113	27.787	22.439	1.00	27.31
ATOM	18333	O	THR	2750	26.135	28.731	23.033	1.00	27.33
ATOM	18334	N	VAL	2751	26.779	26.533	21.475	1.00	27.07
ATOM	18335	CA	VAL	2751	26.111	26.320	23.633	1.00	26.45
ATOM	18336	CB	VAL	2751	24.330	26.094	23.036	1.00	27.34
ATOM	18337	CG1	VAL	2751	24.945	24.601	23.717	1.00	25.72
ATOM	18338	CG2	VAL	2751	24.132	26.314	18.817	1.00	27.61
ATOM	18339	C	VAL	2751	23.508	26.340	24.241	1.00	23.59
ATOM	18340	O	VAL	2751	23.159	26.375	23.380	1.00	23.42
ATOM	18341	N	GLN	2752	24.424	24.308	24.665	1.00	25.38
ATOM	18342	CA	GLN	2752	24.140	24.443	24.261	1.00	25.15
ATOM	18343	CB	GLN	2752	24.556	23.737	24.735	1.00	25.71
ATOM	18344	CG	GLN	2752	24.136	23.131	24.732	1.00	21.60
ATOM	18345	CD	GLN	2752	24.763	23.774	24.113	1.00	19.81
ATOM	18346	CE	GLN	2752	23.425	20.616	23.116	1.00	20.75
ATOM	18347	NE	GLN	2752	23.563	18.802	24.233	1.00	16.51
ATOM	18348	C	GLN	2752	24.248	23.637	24.436	1.00	27.38
ATOM	18349	O	GLN	2752	23.303	25.818	22.177	1.00	26.43
ATOM	18350	N	GLY	2753	25.401	26.286	24.532	1.00	27.57
ATOM	18351	CA	GLY	2753	25.577	27.273	24.574	1.00	29.69
ATOM	18352	C	GLY	2753	26.144	26.765	24.886	1.00	30.82
ATOM	18353	O	GLY	2753	25.954	27.334	25.828	1.00	30.53
ATOM	18354	N	GLY	2753	25.886	27.131	26.842	1.00	30.11

ATOM	18355	CA	HIS	2754	27.448	25.063	20.036	1.00	32.27
ATOM	18356	CB	HIS	2754	27.639	23.557	19.877	1.00	33.27
ATOM	18357	CG	HIS	2754	26.359	22.794	19.763	1.00	34.86
ATOM	18358	CD	HIS	2754	25.857	22.050	18.751	1.00	34.88
ATOM	18359	ND1	HIS	2754	25.431	21.735	20.783	1.00	35.48
ATOM	18360	CE1	HIS	2754	24.411	21.988	20.404	1.00	35.76
ATOM	18361	NE2	HIS	2754	24.641	21.562	19.175	1.00	35.21
ATOM	18362	C	HIS	2754	28.808	25.721	20.258	1.00	33.24
ATOM	18363	O	HIS	2754	29.329	26.391	19.365	1.00	31.50
ATOM	18364	N	ASP	2755	29.381	25.511	21.442	1.00	4.08
ATOM	18365	CA	ASP	2755	30.638	26.084	21.795	1.00	35.48
ATOM	18366	CB	ASP	2755	30.789	26.256	23.319	1.00	38.54
ATOM	18367	CG	ASP	2755	30.687	24.941	24.070	1.00	40.66
ATOM	18368	OD1	ASP	2755	31.598	24.093	23.924	1.00	44.22
ATOM	18369	OD2	ASP	2755	29.694	24.749	24.805	1.00	43.84
ATOM	18370	C	ASP	2755	31.841	25.240	21.285	1.00	35.23
ATOM	18371	O	ASP	2755	32.999	25.650	21.363	1.00	36.04
ATOM	18372	N	SEP	2756	31.134	24.055	20.770	1.00	33.43
ATOM	18373	CA	SEP	2756	32.755	23.161	20.139	1.00	31.37
ATOM	18374	CB	SEP	2756	33.711	22.253	21.315	1.00	29.90
ATOM	18375	CG	SEP	2756	32.718	21.301	21.259	1.00	28.90
ATOM	18376	C	SEP	2756	32.903	22.316	19.134	1.00	29.66
ATOM	18377	O	SEP	2756	30.787	22.506	18.776	1.00	29.90
ATOM	18378	N	THR	2757	32.700	21.382	18.601	1.00	30.36
ATOM	18379	CA	THR	2757	32.136	20.520	17.574	1.00	29.72
ATOM	18380	CB	THR	2757	32.339	20.404	17.415	1.00	28.31
ATOM	18381	CG1	THR	2757	34.481	19.832	16.912	1.00	17.82
ATOM	18382	CG2	THR	2757	33.643	21.773	15.811	1.00	19.02
ATOM	18383	C	THR	2757	31.989	19.109	18.009	1.00	29.20
ATOM	18384	O	THR	2757	31.433	18.275	17.217	1.00	18.12
ATOM	18385	N	LEU	2758	32.110	18.842	18.283	1.00	18.10
ATOM	18386	CA	LEU	2758	32.133	17.819	18.849	1.00	17.55
ATOM	18387	CB	LEU	2758	32.141	17.453	21.312	1.00	18.03
ATOM	18388	CG	LEU	2758	33.683	17.047	21.630	1.00	19.70
ATOM	18389	CD1	LEU	2758	34.651	18.019	20.978	1.00	20.55
ATOM	18390	CD2	LEU	2758	33.139	17.911	23.115	1.00	21.83
ATOM	18391	C	LEU	2758	30.137	17.372	22.713	1.00	18.87
ATOM	18392	O	LEU	2758	30.139	15.899	22.418	1.00	16.40
ATOM	18393	N	PPO	2759	29.421	17.993	22.908	1.00	18.39
ATOM	18394	CA	PPO	2759	29.459	19.394	20.346	1.00	23.12
ATOM	18395	CB	PPO	2759	27.697	17.626	22.795	1.00	26.06
ATOM	18396	CG	PPO	2759	27.153	18.898	20.250	1.00	23.18
ATOM	18397	CH	PPO	2759	28.135	19.993	22.929	1.00	27.49
ATOM	18398	C	PPO	2759	27.135	17.161	22.401	1.00	25.25
ATOM	18399	O	PPO	2759	26.439	16.557	22.244	1.00	24.22
ATOM	18400	N	VAL	2760	28.377	17.435	27.389	1.00	24.76
ATOM	18401	CA	VAL	2760	28.043	17.637	26.022	1.00	23.60
ATOM	18402	CB	VAL	2760	28.133	17.697	24.949	1.00	23.62
ATOM	18403	CG1	VAL	2760	28.611	17.292	23.532	1.00	23.23
ATOM	18404	CG2	VAL	2760	28.913	19.204	25.135	1.00	24.42
ATOM	18405	C	VAL	2760	28.129	15.528	25.853	1.00	21.28
ATOM	18406	O	VAL	2760	29.143	14.912	26.145	1.00	21.37
ATOM	18407	N	THR	2761	27.041	14.914	25.331	1.00	21.58
ATOM	18408	CA	THR	2761	27.133	13.473	25.205	1.00	22.07
ATOM	18409	CB	THR	2761	26.133	12.763	26.109	1.00	25.74
ATOM	18410	CG1	THR	2761	25.941	13.703	26.510	1.00	27.70
ATOM	18411	CG2	THR	2761	26.713	13.805	27.332	1.00	29.36
ATOM	18412	C	THR	2761	27.037	13.063	23.711	1.00	20.47
ATOM	18413	O	THR	2761	26.810	13.997	22.351	1.00	18.18
ATOM	18414	N	VAL	2762	27.146	11.749	23.466	1.00	17.62
ATOM	18415	CA	VAL	2762	27.177	11.268	22.102	1.00	18.14
ATOM	18416	CB	VAL	2762	27.260	9.724	22.092	1.00	16.96
ATOM	18417	CG1	VAL	2762	27.167	9.123	22.676	1.00	16.56
ATOM	18418	CG2	VAL	2762	26.601	9.435	22.702	1.00	17.91
ATOM	18419	C	VAL	2762	25.831	11.759	21.335	1.00	17.74
ATOM	18420	O	VAL	2762	25.963	11.145	22.204	1.00	20.33
ATOM	18421	N	ALA	2763	24.714	11.555	21.950	1.00	16.56
ATOM	18422	CA	ALA	2763	23.461	11.839	21.308	1.00	16.78
ATOM	18423	CB	ALA	2763	23.131	11.127	22.274	1.00	17.39
ATOM	18424	CG	ALA	2763	23.435	11.137	22.814	1.00	16.99
ATOM	18425	C	ALA	2763	22.967	11.679	19.732	1.00	16.49
ATOM	18426	N	ASP	2764	24.024	14.289	21.697	1.00	16.36
ATOM	18427	CA	ASP	2764	24.118	15.626	21.228	1.00	17.13
ATOM	18428	CB	ASP	2764	24.219	14.544	22.355	1.00	16.73
ATOM	18429	CG	ASP	2764	23.688	14.518	23.822	1.00	18.74
ATOM	18430	C	ASP	2764	22.138	14.468	23.539	1.00	17.16
ATOM	18431	O	ASP	2764	24.581	14.135	24.719	1.00	18.91

ATOM	18432	C	ASP	2764	24.968	15.875	19.977	1.00	16.55
ATOM	18433	O	ASP	2764	24.617	16.642	19.084	1.00	15.59
ATOM	18434	N	ILE	2765	26.094	15.171	19.923	1.00	17.15
ATOM	18435	CA	ILE	2765	26.991	15.361	18.774	1.00	16.11
ATOM	18436	CB	ILE	2765	28.137	14.499	18.985	1.00	16.63
ATOM	18437	CG2	ILE	2765	29.193	14.452	17.740	1.00	16.14
ATOM	18438	CG1	ILE	2765	29.057	14.401	20.107	1.00	18.27
ATOM	18439	CD1	ILE	2765	29.657	16.400	20.041	1.00	20.11
ATOM	18440	C	ILE	2765	26.262	14.787	17.509	1.00	16.09
ATOM	18441	O	ILE	2765	26.428	15.432	16.461	1.00	17.25
ATOM	18442	N	ALA	2766	23.565	13.661	17.615	1.00	17.05
ATOM	18443	CA	ALA	2766	24.831	13.106	16.478	1.00	16.59
ATOM	18444	CB	ALA	2766	24.101	11.785	16.358	1.00	16.04
ATOM	18445	C	ALA	2766	23.749	14.066	15.983	1.00	16.20
ATOM	18446	O	ALA	2766	23.486	14.167	14.778	1.00	14.36
ATOM	18447	N	TYR	2767	22.939	14.245	16.321	1.00	15.60
ATOM	18448	CA	TYR	2767	22.748	15.561	16.578	1.00	17.66
ATOM	18449	CB	TYR	2767	21.449	16.069	17.352	1.00	17.15
ATOM	18450	CG	TYR	2767	21.442	17.546	17.811	1.00	18.56
ATOM	18451	CD1	TYR	2767	19.112	17.117	16.498	1.00	15.60
ATOM	18452	CE1	TYR	2767	18.169	18.115	16.811	1.00	18.55
ATOM	18453	CD2	TYR	2767	22.609	18.001	18.028	1.00	21.43
ATOM	18454	CE2	TYR	2767	18.774	19.004	17.345	1.00	17.93
ATOM	18455	CZ	TYR	2767	18.447	18.546	17.138	1.00	20.48
ATOM	18456	OH	TYR	2767	17.607	20.009	17.167	1.00	18.43
ATOM	18457	C	TYR	2767	21.612	18.001	17.715	1.00	18.01
ATOM	18458	O	TYR	2767	21.100	17.001	14.614	1.00	19.81
ATOM	18459	N	HIS	2768	21.609	17.482	16.326	1.00	19.41
ATOM	18460	CA	HIS	2768	24.109	18.501	18.479	1.00	18.71
ATOM	18461	CB	HIS	2768	25.135	18.004	16.187	1.00	18.31
ATOM	18462	CG	HIS	2768	24.642	20.000	17.430	1.00	19.81
ATOM	18463	CD2	HIS	2768	24.004	18.709	18.111	1.00	20.46
ATOM	18464	ND1	HIS	2768	23.816	20.001	17.175	1.00	19.52
ATOM	18465	CE1	HIS	2768	21.046	21.007	18.402	1.00	19.84
ATOM	18466	NE2	HIS	2768	21.049	20.002	17.144	1.00	19.32
ATOM	18467	C	HIS	2768	24.000	18.102	14.109	1.00	17.63
ATOM	18468	O	HIS	2768	24.016	18.007	18.115	1.00	17.64
ATOM	18469	N	THR	2769	23.708	16.004	14.714	1.00	17.47
ATOM	18470	CA	THR	2769	26.100	18.001	14.104	1.00	18.92
ATOM	18471	CB	THR	2769	26.010	14.000	14.101	1.00	19.61
ATOM	18472	CG1	THR	2769	27.010	15.103	14.109	1.00	19.38
ATOM	18473	CG2	THR	2769	27.005	14.107	12.109	1.00	19.98
ATOM	18474	C	THR	2769	26.001	16.106	11.104	1.00	19.84
ATOM	18475	O	THR	2769	26.000	16.004	11.109	1.00	20.35
ATOM	18476	N	ALA	2770	24.005	16.000	15.173	1.00	18.34
ATOM	18477	CA	ALA	2770	22.000	15.005	12.103	1.00	20.50
ATOM	18478	CB	ALA	2770	21.004	14.002	11.686	1.00	19.96
ATOM	18479	C	ALA	2770	22.000	16.003	10.586	1.00	19.65
ATOM	18480	O	ALA	2770	22.000	17.000	9.389	1.00	19.44
ATOM	18481	N	ALA	2771	22.481	17.981	11.450	1.00	19.52
ATOM	18482	CA	ALA	2771	22.983	19.000	11.010	1.00	19.17
ATOM	18483	CB	ALA	2771	21.881	20.100	12.210	1.00	19.60
ATOM	18484	C	ALA	2771	23.146	19.800	10.070	1.00	19.51
ATOM	18485	O	ALA	2771	22.833	20.325	8.993	1.00	20.21
ATOM	18486	N	VAL	2772	21.495	13.740	10.481	1.00	20.33
ATOM	18487	CA	VAL	2772	25.100	20.134	9.653	1.00	22.46
ATOM	18488	CB	VAL	2772	26.000	19.006	10.330	1.00	22.59
ATOM	18489	CG1	VAL	2772	27.000	20.100	9.355	1.00	22.59
ATOM	18490	CG2	VAL	2772	26.000	20.800	11.570	1.00	20.73
ATOM	18491	C	VAL	2772	23.485	14.514	8.291	1.00	23.49
ATOM	18492	O	VAL	2772	25.067	20.100	7.252	1.00	23.77
ATOM	18493	N	ARG	2773	26.005	13.210	8.307	1.00	23.50
ATOM	18494	CA	ARG	2773	26.052	17.435	7.079	1.00	23.61
ATOM	18495	CB	ARG	2773	25.182	15.349	7.402	1.00	23.75
ATOM	18496	CG	ARG	2773	23.001	16.185	6.001	1.00	24.41
ATOM	18497	CD	ARG	2773	26.015	15.117	5.211	1.00	25.43
ATOM	18498	NE	ARG	2773	27.100	14.710	5.840	1.00	25.15
ATOM	18499	CZ	ARG	2773	23.000	14.010	5.301	1.00	27.67
ATOM	18500	NH1	ARG	2773	28.000	15.000	4.117	1.00	27.85
ATOM	18501	NH2	ARG	2773	29.000	14.440	5.312	1.00	24.81
ATOM	18502	C	ARG	2773	24.000	17.003	6.107	1.00	23.55
ATOM	18503	O	ARG	2773	24.005	17.000	4.007	1.00	25.70
ATOM	18504	N	ARG	2774	23.001	18.193	6.626	1.00	24.07
ATOM	18505	CA	ARG	2774	21.009	18.630	5.777	1.00	24.60
ATOM	18506	CB	ARG	2774	20.698	18.814	6.537	1.00	24.60
ATOM	18507	CG	ARG	2774	20.163	17.532	7.217	1.00	25.80
ATOM	18508	CD	ARG	2774	18.756	17.730	7.326	1.00	27.00

ATOM	18509	NE	ARG	2774	18.227	16.562	8.381	1.00	26.44
ATOM	18510	CZ	ARG	2774	18.464	16.116	9.664	1.00	27.67
ATOM	18511	NH1	ARG	2774	19.207	16.862	10.445	1.00	26.75
ATOM	18512	NH2	ARG	2774	17.957	14.966	10.078	1.00	29.16
ATOM	18513	C	ARG	2774	22.319	19.962	5.107	1.00	26.29
ATOM	18514	O	ARG	2774	21.915	20.225	1.905	1.00	25.64
ATOM	18515	N	GLY	2775	23.094	20.786	5.181	1.00	26.82
ATOM	18516	CA	GLY	2775	23.491	21.081	5.205	1.00	29.16
ATOM	18517	C	GLY	2775	24.683	21.075	4.554	1.00	20.64
ATOM	18518	O	GLY	2775	24.869	21.911	3.518	1.00	10.02
ATOM	18519	N	ALA	2776	25.516	20.987	4.517	1.00	10.40
ATOM	18520	CA	ALA	2776	26.694	20.802	1.691	1.00	22.03
ATOM	18521	CR	ALA	2776	27.914	21.768	4.465	1.00	11.76
ATOM	18522	C	ALA	2776	28.906	19.515	1.404	1.00	12.26
ATOM	18523	O	ALA	2776	27.754	18.670	4.606	1.00	33.25
ATOM	18524	N	PRO	2777	28.118	18.353	1.473	1.00	32.99
ATOM	18525	CO	PRO	2777	29.008	19.418	1.678	1.00	23.32
ATOM	18526	CA	PRO	2777	26.215	17.335	1.169	1.00	33.05
ATOM	18527	CB	PRO	2777	25.077	17.315	1.271	1.00	14.47
ATOM	18528	CG	PRO	2777	24.666	18.461	0.516	1.00	34.66
ATOM	18529	C	PRO	2777	27.519	16.911	1.435	1.00	13.57
ATOM	18530	O	PRO	2777	27.814	15.514	1.749	1.00	31.96
ATOM	18531	N	ASN	2778	28.218	17.802	0.954	1.00	13.97
ATOM	18532	CA	ASN	2778	29.555	17.625	0.166	1.00	15.27
ATOM	18533	CB	ASN	2778	29.669	18.566	-1.046	1.00	10.46
ATOM	18534	CG	ASN	2778	28.554	17.969	-2.017	1.00	18.38
ATOM	18535	OD1	ASN	2778	28.552	16.312	-2.445	1.00	18.91
ATOM	18536	NH	ASN	2778	27.671	14.312	-2.175	1.00	10.91
ATOM	18537	C	ASN	2778	30.768	18.013	1.119	1.00	24.56
ATOM	18538	O	ASN	2778	31.864	18.680	0.965	1.00	11.51
ATOM	18539	N	TYR	2779	31.558	18.384	0.433	1.00	31.91
ATOM	18540	CA	TYR	2779	31.664	18.683	1.125	1.00	11.31
ATOM	18541	CB	TYR	2779	31.232	19.368	4.175	1.00	12.14
ATOM	18542	CG	TYR	2779	30.456	19.601	5.186	1.00	10.62
ATOM	18543	C	TYR	2779	32.377	17.437	4.006	1.00	11.75
ATOM	18544	O	TYR	2779	31.665	16.444	4.177	1.00	11.60
ATOM	18545	N	LEU	2780	33.551	17.673	4.456	1.00	10.11
ATOM	18546	CA	LEU	2780	34.211	16.847	3.133	1.00	29.58
ATOM	18547	CB	LEU	2780	35.744	16.787	5.668	1.00	29.72
ATOM	18548	C	LEU	2780	34.383	15.754	5.758	1.00	29.00
ATOM	18549	CD1	LEU	2780	36.250	14.356	5.241	1.00	29.73
ATOM	18550	CD2	LEU	2780	38.000	16.664	5.553	1.00	10.17
ATOM	18551	C	LEU	2780	33.841	16.958	6.661	1.00	19.34
ATOM	18552	O	LEU	2780	34.345	17.868	7.243	1.00	28.84
ATOM	18553	N	LEU	2781	32.853	16.304	7.150	1.00	27.59
ATOM	18554	CA	LEU	2781	32.184	16.422	8.509	1.00	25.37
ATOM	18555	CB	LEU	2781	30.501	16.063	8.556	1.00	14.75
ATOM	18556	CG	LEU	2781	29.977	16.721	9.694	1.00	13.53
ATOM	18557	CD1	LEU	2781	28.115	16.163	9.349	1.00	14.06
ATOM	18558	CD2	LEU	2781	30.414	16.913	10.964	1.00	22.38
ATOM	18559	C	LEU	2781	33.149	15.443	9.584	1.00	25.37
ATOM	18560	O	LEU	2781	33.730	14.415	9.553	1.00	23.46
ATOM	18561	N	LEU	2782	33.758	16.372	10.514	1.00	26.91
ATOM	18562	CA	LEU	2782	34.488	15.760	11.677	1.00	28.65
ATOM	18563	CB	LEU	2782	35.681	16.549	11.738	1.00	29.44
ATOM	18564	CG	LEU	2782	36.910	15.666	10.716	1.00	31.77
ATOM	18565	CD1	LEU	2782	37.648	16.442	9.443	1.00	31.73
ATOM	18566	CD2	LEU	2782	38.346	16.046	11.345	1.00	34.44
ATOM	18567	C	LEU	2782	35.713	16.018	11.913	1.00	26.25
ATOM	18568	O	LEU	2782	33.602	17.312	13.212	1.00	26.93
ATOM	18569	N	ALA	2783	34.487	14.968	13.681	1.00	25.81
ATOM	18570	CA	ALA	2783	32.773	15.751	14.953	1.00	26.30
ATOM	18571	CB	ALA	2783	31.337	14.361	14.645	1.00	25.81
ATOM	18572	C	ALA	2783	33.723	14.883	14.066	1.00	23.83
ATOM	18573	O	ALA	2783	34.775	13.439	13.911	1.00	23.35
ATOM	18574	N	ASP	2784	33.331	15.112	13.267	1.00	24.55
ATOM	18575	CA	ASP	2784	31.568	14.605	13.409	1.00	24.44
ATOM	18576	CB	ASP	2784	34.614	15.349	13.410	1.00	23.43
ATOM	18577	CG	ASP	2784	35.331	16.352	12.787	1.00	29.77
ATOM	18578	CD1	ASP	2784	35.370	16.717	17.687	1.00	34.29
ATOM	18579	CD2	ASP	2784	35.123	17.329	13.416	1.00	37.38
ATOM	18580	C	ASP	2784	33.445	13.549	19.184	1.00	22.89
ATOM	18581	O	ASP	2784	33.113	13.331	18.176	1.00	22.27
ATOM	18582	N	LEU	2785	34.151	12.641	19.813	1.00	22.16
ATOM	18583	CA	LEU	2785	33.566	11.633	20.718	1.00	11.83
ATOM	18584	CB	LEU	2785	34.278	10.367	20.738	1.00	21.35
ATOM	18585	CG	LEU	2785	34.145	9.458	19.559	1.00	21.98

ATOM	18586	CD1	LEU	2785	34.687	8.077	19.896	1.00	22.46
ATOM	18587	CD2	LEU	2785	32.680	9.356	19.147	1.00	22.46
ATOM	18588	C	LEU	2785	33.629	12.440	22.032	1.00	23.06
ATOM	18589	O	LEU	2785	34.738	12.760	22.472	1.00	25.15
ATOM	18590	N	PRO	2786	32.495	12.771	22.658	1.00	22.63
ATOM	18591	CD	PRO	2786	31.134	12.348	22.085	1.00	22.73
ATOM	18592	CA	PRO	2786	32.483	12.509	23.925	1.00	22.73
ATOM	18593	CB	PRO	2786	30.990	13.690	24.200	1.00	22.61
ATOM	18594	CG	PRO	2786	30.460	12.444	23.604	1.00	24.03
ATOM	18595	C	PRO	2786	33.201	12.840	25.084	1.00	22.35
ATOM	18596	O	PRO	2786	33.734	11.761	24.945	1.00	23.47
ATOM	18597	N	PRE	2787	33.157	13.511	26.132	1.00	23.08
ATOM	18598	CA	PRE	2787	33.731	13.636	27.464	1.00	21.93
ATOM	18599	CB	PRE	2787	33.378	13.979	28.609	1.00	24.14
ATOM	18600	CG	PRE	2787	32.521	13.461	29.074	1.00	25.46
ATOM	18601	CD1	PRE	2787	31.047	13.282	30.355	1.00	28.32
ATOM	18602	CD2	PRE	2787	32.514	13.531	30.835	1.00	29.32
ATOM	18603	CE1	PRE	2787	31.468	12.802	31.134	1.00	29.73
ATOM	18604	CE2	PRE	2787	33.023	12.671	32.157	1.00	30.25
ATOM	18605	CZ	PRE	2787	34.316	12.496	32.559	1.00	31.24
ATOM	18606	C	PRE	2787	33.319	12.348	32.820	1.00	20.61
ATOM	18607	O	PRE	2787	33.174	12.260	32.778	1.00	21.11
ATOM	18608	N	MET	2788	34.334	10.766	28.391	1.00	17.36
ATOM	18609	CA	MET	2788	34.136	9.364	28.432	1.00	20.31
ATOM	18610	CB	MET	2788	33.417	9.169	28.333	1.00	21.32
ATOM	18611	CG	MET	2788	32.645	7.961	27.146	1.00	24.11
ATOM	18612	SD	MET	2788	31.307	7.639	26.617	1.00	25.31
ATOM	18613	CE	MET	2788	31.761	9.174	27.144	1.00	27.30
ATOM	18614	C	MET	2788	31.405	8.155	27.336	1.00	19.10
ATOM	18615	O	MET	2788	32.211	7.516	27.735	1.00	22.61
ATOM	18616	N	ALA	2789	32.430	9.020	26.132	1.00	19.37
ATOM	18617	CA	ALA	2789	32.336	8.321	25.769	1.00	18.37
ATOM	18618	CB	ALA	2789	31.316	9.336	24.936	1.00	19.37
ATOM	18619	C	ALA	2789	31.627	7.127	24.460	1.00	19.37
ATOM	18620	O	ALA	2789	32.195	6.736	24.732	1.00	18.33
ATOM	18621	N	TYR	2790	34.330	7.132	24.332	1.00	19.13
ATOM	18622	CA	TYR	2790	33.413	6.150	24.137	1.00	20.39
ATOM	18623	CB	TYR	2790	32.631	6.311	23.146	1.00	21.62
ATOM	18624	CG	TYR	2790	32.338	8.131	23.313	1.00	21.36
ATOM	18625	CD1	TYR	2790	33.339	8.331	24.012	1.00	24.31
ATOM	18626	CE1	TYR	2790	32.009	9.631	24.362	1.00	26.39
ATOM	18627	CD2	TYR	2790	33.441	9.431	23.385	1.00	22.33
ATOM	18628	CE2	TYR	2790	33.333	13.663	23.331	1.00	25.33
ATOM	18629	CZ	TYR	2790	33.331	13.333	24.316	1.00	26.33
ATOM	18630	OH	TYR	2790	33.333	12.333	24.333	1.00	28.33
ATOM	18631	C	TYR	2790	33.330	8.333	23.331	1.00	21.33
ATOM	18632	O	TYR	2790	33.333	7.331	23.333	1.00	20.33
ATOM	18633	N	ALA	2791	33.333	7.333	23.331	1.00	20.33
ATOM	18634	CA	ALA	2791	33.333	4.331	23.333	1.00	21.33
ATOM	18635	CB	ALA	2791	33.333	4.333	23.333	1.00	23.33
ATOM	18636	C	ALA	2791	33.333	3.333	23.333	1.00	21.33
ATOM	18637	O	ALA	2791	33.333	3.333	23.333	1.00	22.33
ATOM	18638	N	THR	2792	33.333	2.333	23.333	1.00	20.33
ATOM	18639	CA	THR	2792	33.333	2.333	23.333	1.00	20.33
ATOM	18640	CB	THR	2792	33.333	0.333	23.333	1.00	21.33
ATOM	18641	OG1	THR	2792	33.333	0.333	23.333	1.00	23.33
ATOM	18642	CG2	THR	2792	33.333	0.333	24.333	1.00	20.33
ATOM	18643	C	THR	2792	33.333	1.333	24.333	1.00	21.33
ATOM	18644	O	THR	2792	33.333	1.333	24.333	1.00	19.33
ATOM	18645	N	PRO	2793	33.333	0.333	23.333	1.00	21.33
ATOM	18646	CD	PRO	2793	33.333	-0.333	23.333	1.00	22.33
ATOM	18647	CA	PRO	2793	33.333	0.333	22.333	1.00	22.33
ATOM	18648	CB	PRO	2793	33.333	-0.333	22.333	1.00	23.33
ATOM	18649	CG	PRO	2793	33.333	-0.333	23.333	1.00	24.33
ATOM	18650	C	PRO	2793	33.333	-0.333	23.333	1.00	21.33
ATOM	18651	O	PRO	2793	33.333	0.333	21.333	1.00	20.33
ATOM	18652	N	GLU	2794	33.333	-0.333	22.333	1.00	22.33
ATOM	18653	CA	GLU	2794	33.333	-1.333	22.333	1.00	22.33
ATOM	18654	CB	GLU	2794	33.333	-2.333	23.333	1.00	23.33
ATOM	18655	CG	GLU	2794	33.333	-3.333	23.333	1.00	23.33
ATOM	18656	CD	GLU	2794	33.333	-4.333	24.333	1.00	33.23
ATOM	18657	OE1	GLU	2794	33.333	-4.333	25.293	1.00	33.33
ATOM	18658	OE2	GLU	2794	33.333	-5.333	23.333	1.00	33.33
ATOM	18659	C	GLU	2794	33.333	-0.333	22.333	1.00	21.33
ATOM	18660	O	GLU	2794	33.333	-0.333	21.333	1.00	18.33
ATOM	18661	N	GLN	2795	33.333	0.333	23.333	1.00	19.33
ATOM	18662	CA	GLN	2795	33.333	1.333	23.333	1.00	19.33

ATOM	18663	CB	GLN	2795	32.708	2.444	25.086	1.00	23.38
ATOM	18664	CG	GLN	2795	32.274	1.563	26.219	1.00	30.06
ATOM	18665	CD	GLN	2795	32.302	7.296	27.515	1.00	37.76
ATOM	18666	OE1	GLN	2795	31.557	3.257	27.745	1.00	37.24
ATOM	18667	NE2	GLN	2795	33.164	1.854	23.413	1.00	37.36
ATOM	18668	C	GLN	2795	32.883	2.738	22.611	1.00	18.75
ATOM	18669	O	GLN	2795	31.979	5.379	27.055	1.00	16.21
ATOM	18670	N	ALA	2796	34.160	2.853	21.241	1.00	17.68
ATOM	18671	CA	ALA	2796	34.561	5.740	21.141	1.00	16.70
ATOM	18672	CB	ALA	2796	26.672	3.731	21.019	1.00	17.78
ATOM	18673	C	ALA	2796	33.909	3.206	19.844	1.00	15.71
ATOM	18674	O	ALA	2796	32.408	4.146	19.047	1.00	15.16
ATOM	18675	N	PHE	2797	33.897	2.007	19.547	1.00	16.19
ATOM	18676	CA	PHE	2797	33.302	1.508	18.319	1.00	16.66
ATOM	18677	CB	PHE	2797	33.374	-0.072	18.123	1.00	15.73
ATOM	18678	CG	PHE	2797	34.749	-0.596	18.440	1.00	16.24
ATOM	18679	CD1	PHE	2797	35.882	0.081	18.613	1.00	17.94
ATOM	18680	CD2	PHE	2797	34.907	-1.821	18.638	1.00	17.13
ATOM	18681	CE1	PHE	2797	37.153	-0.487	18.112	1.00	20.94
ATOM	18682	CE2	PHE	2797	36.175	-2.169	18.235	1.00	20.14
ATOM	18683	CZ	PHE	2797	35.739	-1.678	18.337	1.00	18.91
ATOM	18684	O	PHE	2797	31.810	1.911	18.111	1.00	15.77
ATOM	18685	O	PHE	2797	31.348	2.438	17.115	1.00	14.05
ATOM	18686	N	GLU	2798	31.135	1.668	18.538	1.00	15.71
ATOM	18687	CA	GLU	2798	29.637	2.017	18.241	1.00	16.59
ATOM	18688	CB	GLU	2798	29.139	1.537	20.741	1.00	27.46
ATOM	18689	CG	GLU	2798	27.645	1.734	20.915	1.00	27.48
ATOM	18690	CH	GLU	2798	28.807	0.921	18.936	1.00	31.12
ATOM	18691	OE1	GLU	2798	27.266	-0.181	18.534	1.00	34.10
ATOM	18692	OE2	GLU	2798	25.657	1.335	18.645	1.00	34.45
ATOM	18693	O	GLU	2798	29.379	3.550	18.110	1.00	17.80
ATOM	18694	O	GLU	2798	28.510	3.887	18.442	1.00	16.21
ATOM	18695	N	ASN	2799	30.032	4.716	18.916	1.00	15.26
ATOM	18696	CA	ASN	2799	28.808	5.796	18.841	1.00	16.13
ATOM	18697	CB	ASN	2799	30.403	6.523	21.019	1.00	17.15
ATOM	18698	CG	ASN	2799	29.710	6.121	21.319	1.00	20.67
ATOM	18699	OD1	ASN	2799	28.435	5.832	21.118	1.00	17.99
ATOM	18700	ND2	ASN	2799	31.474	6.611	21.441	1.00	17.98
ATOM	18701	O	ASN	2799	30.287	6.411	18.117	1.00	15.61
ATOM	18702	C	ASN	2799	29.615	7.317	18.001	1.00	15.62
ATOM	18703	N	ALA	2800	31.179	5.911	18.019	1.00	16.10
ATOM	18704	CA	ALA	2800	31.891	6.191	16.748	1.00	16.55
ATOM	18705	CB	ALA	2800	33.233	5.751	16.445	1.00	14.64
ATOM	18706	C	ALA	2800	30.885	6.057	15.611	1.00	16.73
ATOM	18707	O	ALA	2800	30.570	6.877	14.741	1.00	17.09
ATOM	18708	N	ALA	2801	30.375	4.823	15.618	1.00	16.50
ATOM	18709	CA	ALA	2801	29.413	4.411	14.653	1.00	16.96
ATOM	18710	CB	ALA	2801	29.623	2.991	14.865	1.00	17.94
ATOM	18711	C	ALA	2801	28.180	5.106	14.326	1.00	15.19
ATOM	18712	O	ALA	2801	27.618	5.661	13.636	1.00	13.52
ATOM	18713	N	THR	2802	27.765	5.679	15.944	1.00	16.31
ATOM	18714	CA	THR	2802	26.596	6.523	16.082	1.00	15.68
ATOM	18715	CB	THR	2802	26.265	6.894	17.512	1.00	16.35
ATOM	18716	OG1	THR	2802	25.595	5.577	13.312	1.00	14.38
ATOM	18717	CG2	THR	2802	25.041	7.714	17.381	1.00	14.96
ATOM	18718	C	THR	2802	26.778	7.869	15.369	1.00	16.13
ATOM	18719	O	THR	2802	25.895	8.319	14.236	1.00	17.22
ATOM	18720	N	VAL	2803	27.921	8.539	15.520	1.00	16.63
ATOM	18721	CA	VAL	2803	28.186	9.706	14.336	1.00	17.54
ATOM	18722	CB	VAL	2803	29.380	10.531	15.544	1.00	18.75
ATOM	18723	CG1	VAL	2803	29.719	11.788	14.315	1.00	23.36
ATOM	18724	CG2	VAL	2803	29.023	10.813	17.038	1.00	20.56
ATOM	18725	C	VAL	2803	28.449	9.661	15.108	1.00	16.45
ATOM	18726	O	VAL	2803	28.136	10.571	12.634	1.00	14.31
ATOM	18727	N	MET	2804	29.029	8.547	13.051	1.00	16.31
ATOM	18728	CA	MET	2804	29.303	8.384	11.539	1.00	17.14
ATOM	18729	CB	MET	2804	30.239	7.093	11.400	1.00	18.19
ATOM	18730	CG	MET	2804	31.654	7.296	11.945	1.00	22.52
ATOM	18731	SD	MET	2804	32.594	3.461	10.330	1.00	24.27
ATOM	18732	CE	MET	2804	32.659	7.576	9.412	1.00	20.53
ATOM	18733	O	MET	2804	27.984	8.063	10.913	1.00	16.01
ATOM	18734	O	MET	2804	27.761	8.613	9.814	1.00	15.88
ATOM	18735	N	ARG	2805	27.191	7.243	11.431	1.00	15.73
ATOM	18736	CA	ARG	2805	25.407	6.997	10.831	1.00	15.34
ATOM	18737	CB	ARG	2805	25.011	5.925	11.596	1.00	13.01
ATOM	18738	CG	ARG	2805	25.847	4.536	11.632	1.00	16.75
ATOM	18739	C	ARG	2805	24.145	3.430	10.060	1.00	13.35

ATOM	18740	NE	ARG	2805	25.314	2.212	12.432	1.00	18.35
ATOM	18741	CZ	ARG	2805	25.767	1.941	13.652	1.00	16.28
ATOM	18742	NH1	ARG	2805	25.609	2.839	14.630	1.00	18.45
ATOM	18743	NH2	ARG	2805	26.369	0.789	13.894	1.00	11.59
ATOM	18744	C	ARG	2805	24.999	8.268	10.718	1.00	15.55
ATOM	18745	C	ARG	2805	24.139	8.404	9.817	1.00	14.99
ATOM	18746	N	ALA	2806	25.232	9.207	11.637	1.00	16.80
ATOM	18747	CA	ALA	2806	24.562	10.473	11.639	1.00	16.61
ATOM	18748	CB	ALA	2806	24.548	11.095	13.030	1.00	16.95
ATOM	18749	C	ALA	2806	24.997	11.483	10.602	1.00	18.90
ATOM	18750	C	ALA	2806	24.415	12.067	10.406	1.00	16.85
ATOM	18751	N	GLY	2807	26.062	11.144	9.880	1.00	17.66
ATOM	18752	CA	GLY	2807	26.511	11.055	8.842	1.00	20.63
ATOM	18753	C	GLY	2807	28.642	12.744	8.866	1.00	19.66
ATOM	18754	C	GLY	2807	28.582	12.841	7.873	1.00	20.33
ATOM	18755	N	ALA	2808	28.706	11.639	9.076	1.00	20.68
ATOM	18756	CA	ALA	2808	30.141	12.179	10.094	1.00	20.51
ATOM	18757	CE	ALA	2808	30.196	12.006	11.732	1.00	21.43
ATOM	18758	C	ALA	2808	30.983	11.133	9.130	1.00	21.32
ATOM	18759	C	ALA	2808	30.581	10.140	8.134	1.00	21.71
ATOM	18760	CA	ASN	2809	31.114	11.154	8.133	1.00	21.83
ATOM	18761	CB	ASN	2809	32.076	11.132	7.131	1.00	21.33
ATOM	18762	CE	ASN	2809	33.561	11.161	6.136	1.00	21.14
ATOM	18763	CG	ASN	2809	32.474	11.583	5.131	1.00	21.87
ATOM	18764	CD	ASN	2809	31.770	11.715	4.130	1.00	26.10
ATOM	18765	ND2	ASN	2809	34.309	10.866	3.130	1.00	24.61
ATOM	18766	C	ASN	2809	34.281	10.818	2.131	1.00	23.17
ATOM	18767	C	ASN	2809	34.931	9.888	1.133	1.00	21.69
ATOM	18768	N	MET	2810	34.505	11.111	0.131	1.00	21.62
ATOM	18769	CA	MET	2810	35.641	11.147	10.638	1.00	21.93
ATOM	18770	CE	MET	2810	36.811	11.130	10.181	1.00	23.09
ATOM	18771	CG	MET	2810	38.119	11.179	10.681	1.00	24.33
ATOM	18772	N	MET	2810	39.431	12.132	10.151	1.00	28.08
ATOM	18773	CE	MET	2810	40.183	11.181	9.181	1.00	27.13
ATOM	18774	C	MET	2810	39.118	11.111	8.111	1.00	21.92
ATOM	18775	C	MET	2810	34.490	11.163	11.111	1.00	23.78
ATOM	18776	N	VAL	2811	35.972	10.112	1.111	1.00	21.53
ATOM	18777	CZ	VAL	2811	35.797	11.144	14.112	1.00	21.27
ATOM	18778	CB	VAL	2811	35.343	10.141	13.116	1.00	23.63
ATOM	18779	CG1	VAL	2811	35.310	10.142	13.119	1.00	27.23
ATOM	18780	CG2	VAL	2811	35.913	9.133	14.112	1.00	23.31
ATOM	18781	C	VAL	2811	37.013	11.161	11.111	1.00	21.34
ATOM	18782	O	VAL	2811	38.111	11.111	14.119	1.00	20.38
ATOM	18783	N	LYS	2812	36.913	12.111	16.111	1.00	21.70
ATOM	18784	CA	LYS	2812	38.066	13.113	16.717	1.00	21.55
ATOM	18785	CB	LYS	2812	38.114	14.112	16.117	1.00	26.79
ATOM	18786	CG	LYS	2812	39.113	13.111	17.114	1.00	22.42
ATOM	18787	CD	LYS	2812	39.567	13.114	16.110	1.00	21.07
ATOM	18788	CE	LYS	2812	40.503	12.111	15.115	1.00	21.59
ATOM	18789	NZ	LYS	2812	40.529	12.111	14.117	1.00	19.95
ATOM	18790	C	LYS	2812	40.017	13.111	14.116	1.00	21.09
ATOM	18791	O	LYS	2812	39.009	12.111	13.113	1.00	20.93
ATOM	18792	N	ILE	2813	39.151	13.111	13.119	1.00	23.63
ATOM	18793	CA	ILE	2813	39.111	11.111	21.116	1.00	25.12
ATOM	18794	CB	ILE	2813	39.341	10.113	20.118	1.00	26.14
ATOM	18795	CG2	ILE	2813	40.018	9.113	19.118	1.00	25.11
ATOM	18796	CG1	ILE	2813	40.415	8.113	18.119	1.00	21.05
ATOM	18797	CD1	ILE	2813	40.713	7.111	17.112	1.00	28.59
ATOM	18798	C	ILE	2813	40.542	13.110	20.115	1.00	27.72
ATOM	18799	O	ILE	2813	41.510	11.117	20.078	1.00	26.81
ATOM	18800	N	GLN	2814	40.414	13.112	21.078	1.00	23.11
ATOM	18801	CA	GLN	2814	41.191	13.111	21.050	1.00	30.04
ATOM	18802	CB	GLN	2814	41.106	14.113	21.032	1.00	34.01
ATOM	18803	CG	GLN	2814	40.144	13.110	21.006	1.00	35.36
ATOM	18804	CD	GLN	2814	39.164	12.116	21.636	1.00	41.47
ATOM	18805	OE1	GLN	2814	39.070	11.118	21.812	1.00	41.51
ATOM	18806	OE2	GLN	2814	39.052	13.113	21.105	1.00	44.11
ATOM	18807	C	GLU	2814	42.164	13.115	21.509	1.00	41.70
ATOM	18808	O	GLU	2814	41.779	11.114	21.296	1.00	43.11
ATOM	18809	N	GLU	2814	43.684	12.111	21.354	1.00	36.72
ATOM	18810	CA	GLY	2815	44.506	11.129	24.126	1.00	30.34
ATOM	18811	C	GLY	2815	45.801	11.192	23.415	1.00	31.11
ATOM	18812	O	GLY	2815	45.975	11.195	22.334	1.00	45.87
ATOM	18813	N	GLY	2816	46.715	10.148	24.134	1.00	31.09
ATOM	18814	CA	GLY	2816	47.992	10.187	23.547	1.00	33.07
ATOM	18815	C	GLY	2816	48.173	9.193	23.294	1.00	34.11
ATOM	18816	O	GLY	2816	47.111	8.111	22.111	1.00	31.11

ATOM	18817	N	GLU	2817	49.285	8.364	23.783	1.00	34.03
ATOM	18818	CA	GLU	2817	49.631	6.956	23.615	1.00	34.66
ATOM	18819	CB	GLU	2817	50.925	6.647	24.376	1.00	37.31
ATOM	18820	CG	GLU	2817	52.197	7.025	25.674	1.00	40.46
ATOM	18821	CD	GLU	2817	57.580	5.990	27.591	1.00	42.88
ATOM	18822	OE1	GLU	2817	51.711	5.590	21.793	1.00	44.37
ATOM	18823	OE2	GLU	2817	57.765	5.582	27.567	1.00	47.78
ATOM	18824	C	GLU	2817	48.569	5.946	24.652	1.00	33.69
ATOM	18825	O	GLU	2817	48.395	4.913	25.769	1.00	34.29
ATOM	18826	N	TRP	2818	47.866	6.220	25.117	1.00	31.46
ATOM	18827	CA	TRP	2818	46.855	5.290	25.613	1.00	30.47
ATOM	18828	CB	TRP	2818	46.154	5.779	26.942	1.00	30.40
ATOM	18829	CG	TRP	2818	45.191	6.930	26.812	1.00	29.06
ATOM	18830	CD2	TRP	2818	43.862	6.850	26.881	1.00	28.87
ATOM	18831	CE2	TRP	2818	43.767	8.166	26.698	1.00	28.69
ATOM	18832	CE3	TRP	2818	41.750	5.791	26.941	1.00	27.56
ATOM	18833	CD1	TRP	2818	45.601	8.212	26.684	1.00	30.39
ATOM	18834	NE1	TRP	2818	44.448	5.005	26.609	1.00	31.25
ATOM	18835	CZ2	TRP	2818	41.697	8.451	26.667	1.00	27.17
ATOM	18836	CE3	TRP	2818	41.890	6.674	26.916	1.00	27.75
ATOM	18837	CH	TRP	2818	41.127	7.199	26.776	1.00	27.62
ATOM	18838	C	TRP	2818	42.631	5.648	24.664	1.00	28.99
ATOM	18839	O	TRP	2818	43.864	4.103	24.741	1.00	31.11
ATOM	18840	N	LEU	2819	48.656	5.891	23.531	1.00	27.75
ATOM	18841	CA	LEU	2819	44.616	5.744	23.579	1.00	26.47
ATOM	18842	CB	LEU	2819	43.131	7.118	23.115	1.00	26.77
ATOM	18843	CG	LEU	2819	43.745	7.896	23.108	1.00	28.13
ATOM	18844	CD1	LEU	2819	43.926	5.119	23.487	1.00	29.47
ATOM	18845	CD2	LEU	2819	43.969	7.111	23.538	1.00	29.47
ATOM	18846	C	LEU	2819	43.040	4.950	21.584	1.00	31.10
ATOM	18847	O	LEU	2819	43.218	4.647	20.497	1.00	31.39
ATOM	18848	N	VAL	2820	46.615	4.510	21.277	1.00	24.47
ATOM	18849	CA	VAL	2820	46.814	3.783	20.133	1.00	26.76
ATOM	18850	CB	VAL	2820	47.058	3.161	20.336	1.00	27.68
ATOM	18851	CG1	VAL	2820	47.671	2.590	19.181	1.00	27.00
ATOM	18852	CG2	VAL	2820	47.610	4.461	20.446	1.00	28.47
ATOM	18853	C	VAL	2820	46.042	2.585	19.774	1.00	27.78
ATOM	18854	O	VAL	2820	46.605	2.471	18.681	1.00	27.06
ATOM	18855	N	LEU	2821	46.704	3.686	20.729	1.00	24.73
ATOM	18856	CA	LEU	2821	46.895	3.514	20.477	1.00	23.16
ATOM	18857	CB	LEU	2821	46.782	-0.711	21.765	1.00	28.86
ATOM	18858	CG	LEU	2821	46.051	-1.643	21.834	1.00	31.11
ATOM	18859	CD	LEU	2821	46.926	-2.416	20.870	1.00	31.11
ATOM	18860	OE1	LEU	2821	46.340	-1.871	21.830	1.00	31.96
ATOM	18861	OE2	LEU	2821	46.410	-3.566	22.927	1.00	30.11
ATOM	18862	C	LEU	2821	46.501	0.876	19.662	1.00	24.62
ATOM	18863	O	LEU	2821	42.979	0.136	16.846	1.00	21.95
ATOM	18864	N	THR	2822	46.906	1.995	20.519	1.00	34.39
ATOM	18865	CA	THR	2822	46.668	2.136	20.141	1.00	31.39
ATOM	18866	CB	THR	2822	46.021	3.415	21.949	1.00	24.68
ATOM	18867	OG1	THR	2822	46.329	2.868	21.422	1.00	24.11
ATOM	18868	CG2	THR	2822	39.635	3.842	20.651	1.00	23.04
ATOM	18869	C	THR	2822	46.590	2.876	19.715	1.00	24.63
ATOM	18870	O	THR	2822	46.671	2.631	17.627	1.00	21.37
ATOM	18871	N	VAL	2823	46.645	3.611	19.331	1.00	26.33
ATOM	18872	CA	VAL	2823	46.785	4.170	17.041	1.00	26.79
ATOM	18873	CB	VAL	2823	44.902	5.116	16.961	1.00	25.36
ATOM	18874	CG1	VAL	2823	43.159	5.838	15.535	1.00	25.93
ATOM	18875	CG2	VAL	2823	43.315	6.176	17.628	1.00	26.50
ATOM	18876	C	VAL	2823	42.648	3.163	16.005	1.00	25.13
ATOM	18877	O	VAL	2823	42.373	3.063	14.674	1.00	21.77
ATOM	18878	N	GLN	2824	43.333	2.117	16.299	1.00	24.09
ATOM	18879	CA	GLN	2824	43.165	1.730	15.393	1.00	24.30
ATOM	18880	CB	GLN	2824	45.158	0.768	16.705	1.00	23.01
ATOM	18881	CG	GLN	2824	45.457	0.337	16.333	1.00	33.53
ATOM	18882	CH	GLN	2824	47.491	-0.229	16.903	1.00	34.74
ATOM	18883	OE1	GLN	2824	47.243	-0.791	17.917	1.00	33.11
ATOM	18884	NE2	GLN	2824	46.656	-0.12	16.267	1.00	38.21
ATOM	18885	C	GLN	2824	43.843	0.107	15.101	1.00	24.39
ATOM	18886	O	GLN	2824	43.514	-0.957	13.946	1.00	24.34
ATOM	18887	N	MET	2825	42.126	-0.167	16.155	1.00	23.92
ATOM	18888	CA	MET	2825	40.905	-0.446	16.011	1.00	22.36
ATOM	18889	CB	MET	2825	40.438	-1.326	17.383	1.00	23.59
ATOM	18890	CG	MET	2825	41.414	-2.396	18.024	1.00	24.25
ATOM	18891	SD	MET	2825	45.854	-3.051	19.584	1.00	26.27
ATOM	18892	CE	MET	2825	46.744	-4.323	19.026	1.00	27.47
ATOM	18893	C	MET	2825	46.786	-6.196	15.743	1.00	26.99

ATOM	18894	O	MET	2825	39.024	-0.792	14.543	1.00	19.10
ATOM	18895	N	LEU	2826	39.685	1.109	15.137	1.00	20.85
ATOM	18896	CA	LEU	2826	38.615	1.915	14.893	1.00	22.61
ATOM	18897	CB	LEU	2826	38.620	3.325	15.488	1.00	20.71
ATOM	18898	CG	LEU	2826	37.867	3.457	16.819	1.00	23.07
ATOM	18899	CD1	LEU	2826	38.181	4.783	17.487	1.00	21.86
ATOM	18900	CD2	LEU	2826	36.877	3.757	16.548	1.00	21.56
ATOM	18901	C	LEU	2826	38.883	1.996	17.381	1.00	24.44
ATOM	18902	O	LEU	2826	37.944	1.870	17.590	1.00	22.55
ATOM	18903	N	THR	2827	40.131	2.264	17.890	1.00	26.28
ATOM	18904	CA	THR	2827	40.474	2.701	17.538	1.00	29.53
ATOM	18905	CB	THR	2827	41.988	2.511	17.864	1.00	20.31
ATOM	18906	CG1	THR	2827	42.181	3.724	17.010	1.00	14.27
ATOM	18907	CG2	THR	2827	42.527	2.588	9.902	1.00	53.86
ATOM	18908	C	THR	2827	40.634	1.066	16.795	1.00	27.89
ATOM	18909	O	THR	2827	39.149	1.171	9.776	1.00	28.80
ATOM	18910	N	GLU	2828	40.426	-0.121	17.258	1.00	28.30
ATOM	18911	CA	GLU	2828	40.641	-1.151	16.590	1.00	28.55
ATOM	18912	CB	GLU	2828	40.775	-2.543	17.179	1.00	30.11
ATOM	18913	CG	GLU	2828	41.107	-2.404	17.638	1.00	31.98
ATOM	18914	CD	GLU	2828	41.836	-3.614	17.186	1.00	32.11
ATOM	18915	OE1	GLU	2828	42.036	-4.541	17.554	1.00	32.16
ATOM	18916	OE2	GLU	2828	41.475	-4.374	14.205	1.00	46.19
ATOM	18917	C	GLU	2828	38.340	-1.389	16.551	1.00	15.66
ATOM	18918	O	GLU	2828	38.039	-2.412	9.891	1.00	25.15
ATOM	18919	N	ARG	2829	37.829	-0.857	17.444	1.00	23.40
ATOM	18920	CA	ARG	2829	36.384	-0.987	17.317	1.00	21.61
ATOM	18921	CB	ARG	2829	36.901	-1.037	17.971	1.00	25.71
ATOM	18922	CG	ARG	2829	36.141	-2.378	13.619	1.00	18.36
ATOM	18923	CD	ARG	2829	36.183	-3.294	15.140	1.00	18.70
ATOM	18924	NE	ARG	2829	36.640	-3.585	15.719	1.00	16.89
ATOM	18925	CZ	ARG	2829	37.869	-4.112	15.666	1.00	17.12
ATOM	18926	NH1	ARG	2829	38.110	-3.439	15.065	1.00	18.97
ATOM	18927	NH2	ARG	2829	38.102	-5.103	16.101	1.00	21.35
ATOM	18928	C	ARG	2829	35.674	0.104	13.759	1.00	20.80
ATOM	18929	O	ARG	2829	34.776	0.458	12.340	1.00	18.63
ATOM	18930	N	ALA	2830	36.108	0.642	9.727	1.00	21.90
ATOM	18931	CA	ALA	2830	35.803	1.686	8.886	1.00	21.95
ATOM	18932	CB	ALA	2830	34.773	1.123	8.731	1.00	21.04
ATOM	18933	C	ALA	2830	35.690	3.086	9.433	1.00	21.69
ATOM	18934	O	ALA	2830	35.042	3.937	8.838	1.00	22.61
ATOM	18935	N	VAL	2831	36.397	3.341	10.139	1.00	22.14
ATOM	18936	CA	VAL	2831	36.194	4.662	11.154	1.00	22.55
ATOM	18937	CB	VAL	2831	35.673	4.570	11.651	1.00	23.25
ATOM	18938	CG1	VAL	2831	35.612	5.957	12.154	1.00	22.11
ATOM	18939	CG2	VAL	2831	34.300	3.910	15.654	1.00	21.29
ATOM	18940	C	VAL	2831	37.320	5.427	11.137	1.00	22.41
ATOM	18941	O	VAL	2831	38.483	0.051	11.940	1.00	21.58
ATOM	18942	N	PRO	2832	37.534	6.490	10.763	1.00	22.74
ATOM	18943	CA	PRO	2832	36.681	6.962	9.330	1.00	23.21
ATOM	18944	CB	PRO	2832	38.370	7.059	10.350	1.00	21.96
ATOM	18945	CG	PRO	2832	38.710	8.310	8.981	1.00	24.93
ATOM	18946	C3	PRO	2832	37.244	8.303	8.011	1.00	26.31
ATOM	18947	C	PRO	2832	38.361	8.119	11.611	1.00	25.36
ATOM	18948	O	PRO	2832	37.954	8.944	11.007	1.00	26.50
ATOM	18949	N	VAL	2833	40.163	5.254	11.114	1.00	25.46
ATOM	18950	CA	VAL	2833	40.372	9.035	11.368	1.00	24.56
ATOM	18951	CB	VAL	2833	40.983	3.347	11.466	1.00	25.89
ATOM	18952	CG1	VAL	2833	41.961	3.909	11.775	1.00	26.10
ATOM	18953	CG2	VAL	2833	40.167	6.869	13.533	1.00	26.15
ATOM	18954	C	VAL	2833	41.236	10.294	13.233	1.00	26.06
ATOM	18955	O	VAL	2833	42.116	15.397	11.413	1.00	22.96
ATOM	18956	N	CYS	2834	40.831	11.325	13.933	1.00	26.84
ATOM	18957	CA	CYS	2834	41.559	12.583	12.913	1.00	27.63
ATOM	18958	CB	CYS	2834	40.683	13.735	13.533	1.00	27.35
ATOM	18959	SG	CYS	2834	41.516	15.363	14.665	1.00	27.15
ATOM	18960	C	CYS	2834	42.098	12.734	15.333	1.00	28.35
ATOM	18961	O	CYS	2834	41.316	12.937	16.207	1.00	28.33
ATOM	18962	N	GLY	2835	42.418	12.775	15.598	1.00	29.72
ATOM	18963	CA	GLY	2835	44.014	13.373	16.816	1.00	29.32
ATOM	18964	C	GLY	2835	41.832	14.381	17.336	1.00	30.47
ATOM	18965	O	GLY	2835	45.460	15.238	16.590	1.00	28.61
ATOM	18966	N	HIS	2836	44.100	14.561	18.634	1.00	31.24
ATOM	18967	CA	HIS	2836	43.971	15.869	19.274	1.00	35.35
ATOM	18968	CB	HIS	2836	42.553	16.035	19.816	1.00	36.73
ATOM	18969	CG	HIS	2836	42.176	17.336	20.366	1.00	38.15
ATOM	18970	CH	HIS	2836	42.631	18.997	21.499	1.00	36.91

ATOM	18971	ND1	HIS	2836	41.313	18.226	19.837	1.00	39.91
ATOM	18972	CE1	HIS	2836	41.174	19.350	20.531	1.00	41.13
ATOM	18973	NE2	HIS	2836	42.180	19.278	21.490	1.00	41.39
ATOM	18974	C	HIS	2836	44.973	19.941	20.470	1.00	36.82
ATOM	18975	O	HIS	2836	44.860	18.791	21.452	1.00	34.99
ATOM	18976	N	LEU	2837	45.038	19.747	20.251	1.00	38.51
ATOM	18977	CA	LEU	2837	47.059	19.905	21.259	1.00	41.31
ATOM	18978	CB	LEU	2837	48.355	19.279	20.745	1.00	40.92
ATOM	18979	CG	LEU	2837	48.743	18.765	20.510	1.00	40.97
ATOM	18980	CD1	LEU	2837	49.009	18.330	19.784	1.00	41.01
ATOM	18981	CD2	LEU	2837	48.101	18.051	21.840	1.00	41.35
ATOM	18982	C	LEU	2837	47.181	18.377	21.157	1.00	43.49
ATOM	18983	O	LEU	2837	47.981	19.249	20.735	1.00	43.31
ATOM	18984	N	GLY	2838	47.810	18.647	22.743	1.00	46.70
ATOM	18985	CA	GLY	2838	48.677	20.618	23.141	1.00	50.65
ATOM	18986	C	GLY	2838	47.759	20.378	24.405	1.00	51.80
ATOM	18987	O	GLY	2838	47.806	20.011	25.514	1.00	54.57
ATOM	18988	N	LEU	2839	48.256	21.092	24.297	1.00	50.62
ATOM	18989	CA	LEU	2839	48.486	21.105	25.477	1.00	58.56
ATOM	18990	CB	LEU	2839	47.780	22.062	25.440	1.00	58.83
ATOM	18991	CG	LEU	2839	48.019	22.710	26.867	1.00	59.51
ATOM	18992	CD1	LEU	2839	48.176	22.109	26.665	1.00	60.17
ATOM	18993	CD2	LEU	2839	48.061	22.594	26.262	1.00	59.46
ATOM	18994	C	LEU	2839	44.074	20.801	26.307	1.00	60.70
ATOM	18995	O	LEU	2839	47.137	21.401	24.815	1.00	60.93
ATOM	18996	NA	THR	2840	48.994	18.660	25.910	1.00	61.24
ATOM	18997	C	THR	2840	48.077	18.946	25.864	1.00	61.55
ATOM	18998	CB	THR	2840	48.879	17.848	26.217	1.00	61.70
ATOM	18999	CG1	THR	2840	48.477	17.114	27.436	1.00	61.57
ATOM	19000	CG2	THR	2840	48.772	16.831	27.064	1.00	61.36
ATOM	19001	C	THR	2840	41.638	18.493	26.955	1.00	61.81
ATOM	19002	O	THR	2840	47.815	18.583	28.211	1.00	63.36
ATOM	19003	N	PRO	2841	48.177	20.090	26.460	1.00	63.41
ATOM	19004	CA	PRO	2841	48.118	20.721	27.046	1.00	63.65
ATOM	19005	CB	PRO	2841	48.177	20.058	27.341	1.00	63.17
ATOM	19006	CG	PRO	2841	48.678	21.457	26.550	1.00	63.72
ATOM	19007	CD	PRO	2841	48.764	20.748	27.217	1.00	64.14
ATOM	19008	C	PRO	2841	47.753	19.814	28.217	1.00	61.96
ATOM	19009	O	PRO	2841	48.127	19.911	29.216	1.00	62.43
ATOM	19010	N	GLN	2842	48.676	18.997	28.154	1.00	62.70
ATOM	19011	CA	GLN	2842	48.945	18.510	28.778	1.00	62.12
ATOM	19012	CB	GLN	2842	48.871	18.081	29.359	1.00	62.10
ATOM	19013	CG	GLN	2842	48.776	18.147	29.251	1.00	61.51
ATOM	19014	CD	GLN	2842	48.712	18.871	28.465	1.00	61.57
ATOM	19015	OE1	GLN	2842	48.650	18.777	28.616	1.00	61.39
ATOM	19016	NE2	GLN	2842	48.698	18.011	29.245	1.00	61.54
ATOM	19017	C	GLN	2842	48.783	18.743	29.151	1.00	61.51
ATOM	19018	O	GLN	2842	48.661	18.190	29.439	1.00	61.39
ATOM	19019	N	SER	2843	48.635	17.650	29.741	1.00	61.46
ATOM	19020	CA	SER	2843	48.557	18.060	31.017	1.00	61.52
ATOM	19021	CB	SER	2843	48.890	16.781	30.639	1.00	61.26
ATOM	19022	OG	SER	2843	48.690	18.191	29.847	1.00	61.14
ATOM	19023	C	SER	2843	48.810	18.743	31.798	1.00	61.57
ATOM	19024	O	SER	2843	48.805	18.655	32.330	1.00	62.21
ATOM	19025	N	VAL	2844	48.790	18.191	31.839	1.00	61.40
ATOM	19026	CA	VAL	2844	48.894	20.160	32.593	1.00	61.08
ATOM	19027	CB	VAL	2844	48.615	21.543	32.536	1.00	60.81
ATOM	19028	CG1	VAL	2844	47.785	20.699	32.764	1.00	60.34
ATOM	19029	CG2	VAL	2844	48.775	20.662	33.380	1.00	60.79
ATOM	19030	C	VAL	2844	48.066	20.052	34.101	1.00	61.01
ATOM	19031	O	VAL	2844	48.693	21.901	34.754	1.00	60.58
ATOM	19032	N	ASN	2845	49.489	18.751	34.444	1.00	61.15
ATOM	19033	CA	ASN	2845	49.469	18.947	35.177	1.00	61.73
ATOM	19034	CB	ASN	2845	48.384	17.716	35.449	1.00	60.56
ATOM	19035	CG	ASN	2845	48.370	18.333	36.339	1.00	59.61
ATOM	19036	CD1	ASN	2845	48.346	18.438	36.807	1.00	58.58
ATOM	19037	NE1	ASN	2845	48.349	17.924	35.175	1.00	59.79
ATOM	19038	C	ASN	2845	49.821	18.338	36.175	1.00	62.60
ATOM	19039	O	ASN	2845	48.296	18.629	37.386	1.00	62.03
ATOM	19040	N	ILE	2846	48.441	17.636	35.570	1.00	64.05
ATOM	19041	CA	ILE	2846	48.750	17.046	35.831	1.00	65.55
ATOM	19042	CB	ILE	2846	48.208	16.151	34.651	1.00	65.57
ATOM	19043	CG1	ILE	2846	44.609	15.612	34.915	1.00	65.70
ATOM	19044	CG2	ILE	2846	45.273	14.995	34.453	1.00	65.59
ATOM	19045	CD1	ILE	2846	42.118	14.057	35.643	1.00	65.41
ATOM	19046	C	ILE	2846	44.795	18.137	36.051	1.00	66.57
ATOM	19047	O	ILE	2846	44.340	18.159	37.096	1.00	66.67

ATOM	19048	N	PHE	2847	43.896	19.053	35.092	1.00	67.71
ATOM	19049	CA	PHE	2847	44.855	20.149	35.172	1.00	68.69
ATOM	19050	CB	PHE	2847	45.158	20.684	33.771	1.00	69.22
ATOM	19051	CG	PHE	2847	45.618	19.600	32.807	1.00	69.88
ATOM	19052	CD1	PHE	2847	46.776	18.899	33.055	1.00	70.09
ATOM	19053	CD2	PHE	2847	44.892	19.065	31.649	1.00	70.08
ATOM	19054	CE1	PHE	2847	47.206	17.918	31.164	1.00	70.40
ATOM	19055	CE2	PHE	2847	45.511	18.087	30.751	1.00	70.70
ATOM	19056	CZ	PHE	2847	46.471	17.061	31.009	1.00	70.54
ATOM	19057	C	PHE	2847	44.133	21.184	26.050	1.00	69.49
ATOM	19058	O	PHE	2847	41.040	22.000	36.759	1.00	69.68
ATOM	19059	N	GLY	2848	45.094	21.149	36.517	1.00	69.83
ATOM	19060	CA	GLY	2848	41.502	22.174	37.351	1.00	70.24
ATOM	19061	C	GLY	2848	41.198	23.478	36.601	1.00	70.50
ATOM	19062	C	GLY	2848	42.086	24.178	37.217	1.00	70.31
ATOM	19063	N	GLY	2849	42.563	23.617	35.780	1.00	71.04
ATOM	19064	CA	GLY	2849	42.385	24.001	34.459	1.00	71.60
ATOM	19065	C	GLY	2849	41.700	24.997	35.051	1.00	72.16
ATOM	19066	O	GLY	2849	41.771	23.118	31.589	1.00	72.14
ATOM	19067	L	TYR	2850	41.056	25.500	31.766	1.00	71.95
ATOM	19068	CA	TYR	2850	41.570	25.000	31.600	1.00	72.63
ATOM	19069	C	TYR	2850	41.079	26.111	31.000	1.00	72.60
ATOM	19070	CG	TYR	2850	41.257	25.000	29.969	1.00	74.01
ATOM	19071	CD1	TYR	2850	40.153	25.000	31.000	1.00	74.35
ATOM	19072	CD2	TYR	2850	39.050	25.000	30.950	1.00	74.49
ATOM	19073	CE1	TYR	2850	40.821	24.000	28.887	1.00	74.00
ATOM	19074	CE2	TYR	2850	39.120	24.000	28.821	1.00	74.41
ATOM	19075	C	TYR	2850	38.041	24.000	29.669	1.00	74.80
ATOM	19076	CH	TYR	2850	37.155	24.110	29.629	1.00	75.33
ATOM	19077	O	TYR	2850	45.007	25.800	30.900	1.00	74.10
ATOM	19078	O	TYR	2850	41.156	27.000	30.847	1.00	74.16
ATOM	19079	N	ASN	2851	45.847	24.000	30.800	1.00	74.74
ATOM	19080	CA	ASN	2851	47.069	25.100	30.800	1.00	75.23
ATOM	19081	C	ASN	2851	46.166	24.100	31.719	1.00	75.49
ATOM	19082	CG	ASN	2851	47.004	24.000	30.160	1.00	75.61
ATOM	19083	CD	ASN	2851	46.199	23.000	31.999	1.00	75.58
ATOM	19084	CE	ASN	2851	47.075	23.000	29.420	1.00	75.50
ATOM	19085	NE	ASN	2851	46.476	22.000	29.100	1.00	74.90
ATOM	19086	C	ASN	2851	47.845	25.000	29.350	1.00	75.66
ATOM	19087	O	ASN	2851	47.572	24.000	28.719	1.00	76.01
ATOM	19088	N	VAL	2852	46.157	26.000	28.850	1.00	75.85
ATOM	19089	CA	VAL	2852	46.062	26.000	27.480	1.00	76.08
ATOM	19090	CB	VAL	2852	46.125	27.440	27.639	1.00	75.99
ATOM	19091	CG1	VAL	2852	46.982	27.440	25.568	1.00	75.65
ATOM	19092	CG2	VAL	2852	46.417	28.440	23.270	1.00	75.82
ATOM	19093	C	VAL	2852	50.204	25.000	27.340	1.00	76.39
ATOM	19094	O	VAL	2852	51.395	25.440	27.390	1.00	76.31
ATOM	19095	N	GLN	2853	46.930	27.000	27.170	1.00	76.70
ATOM	19096	CA	GLN	2853	50.971	22.000	27.010	1.00	77.12
ATOM	19097	CB	GLN	2853	50.160	21.000	26.310	1.00	77.23
ATOM	19098	CG	GLN	2853	50.094	20.000	26.340	1.00	76.94
ATOM	19099	CD	GLN	2853	48.944	21.000	29.020	1.00	76.79
ATOM	19100	OE1	GLN	2853	47.805	21.000	28.510	1.00	76.67
ATOM	19101	NE2	GLN	2853	49.010	21.000	30.350	1.00	77.11
ATOM	19102	C	GLN	2853	51.813	21.000	25.770	1.00	77.33
ATOM	19103	O	GLN	2853	51.469	20.000	24.850	1.00	77.15
ATOM	19104	N	GLY	2854	51.017	21.000	25.750	1.00	77.75
ATOM	19105	CA	GLY	2854	50.911	21.000	24.620	1.00	78.29
ATOM	19106	C	GLY	2854	50.254	22.000	25.020	1.00	78.76
ATOM	19107	O	GLY	2854	50.190	21.000	24.100	1.00	78.75
ATOM	19108	N	ARG	2855	50.348	20.744	25.176	1.00	77.62
ATOM	19109	CA	ARG	2855	50.184	24.320	25.309	1.00	78.07
ATOM	19110	CB	ARG	2855	50.271	25.182	27.954	1.00	78.32
ATOM	19111	CG	ARG	2855	50.397	26.471	27.572	1.00	78.76
ATOM	19112	CH	ARG	2855	50.115	27.460	25.620	1.00	78.70
ATOM	19113	NE	ARG	2855	50.254	26.510	28.110	1.00	78.14
ATOM	19114	OE	ARG	2855	51.707	26.437	25.900	1.00	79.08
ATOM	19115	NH1	ARG	2855	51.900	26.400	28.280	1.00	79.86
ATOM	19116	NH2	ARG	2855	51.906	30.393	26.473	1.00	79.79
ATOM	19117	C	ARG	2855	51.504	23.000	27.200	1.00	78.84
ATOM	19118	O	ARG	2855	51.279	22.170	27.100	1.00	78.88
ATOM	19119	N	GLY	2856	50.806	23.468	27.179	1.00	78.53
ATOM	19120	CA	GLY	2856	50.895	22.492	27.619	1.00	78.02
ATOM	19121	C	GLY	2856	60.118	21.456	26.557	1.00	77.79
ATOM	19122	O	GLY	2856	50.449	21.382	25.500	1.00	77.89
ATOM	19123	N	ASP	2857	61.156	20.655	26.862	1.00	77.46
ATOM	19124	CA	ASP	2857	61.595	19.610	25.861	1.00	78.70

ATCM	19125	CP	ASP	2857	63.377	19.446	25.875	1.00	76.96
ATCM	19126	CG	ASP	2857	63.401	20.634	25.273	1.00	77.36
ATCM	19127	CI1	ASP	2857	63.527	20.962	24.999	1.00	77.51
ATCM	19128	CI2	ASP	2857	64.644	21.235	25.071	1.00	77.38
ATCM	19129	C	ASP	2857	60.892	18.281	26.177	1.00	75.97
ATCM	19130	O	ASP	2857	60.891	17.606	25.280	1.00	76.56
ATCM	19131	N	GIU	2858	60.896	17.901	27.450	1.00	74.75
ATCM	19132	CA	GIU	2858	60.888	16.644	27.863	1.00	73.64
ATCM	19133	CF	GIU	2858	60.868	16.484	29.383	1.00	74.08
ATCM	19134	CG	GIU	2858	59.833	15.184	29.899	1.00	74.86
ATCM	19135	CI	GIU	2858	59.856	15.010	31.408	1.00	75.46
ATCM	19136	OE1	GIU	2858	60.886	15.074	31.641	1.00	75.97
ATCM	19137	OE2	GIU	2858	58.798	14.848	32.061	1.00	75.55
ATCM	19138	C	GIU	2858	58.801	16.896	27.416	1.00	72.68
ATCM	19139	C	GIU	2858	58.819	15.837	27.956	1.00	72.94
ATCM	19140	N	AIA	2859	58.171	17.751	27.441	1.00	71.17
ATCM	19141	CA	AIA	2859	58.774	17.648	27.086	1.00	69.62
ATCM	19142	CF	AIA	2859	58.791	18.801	27.086	1.00	69.37
ATCM	19143	C	AIA	2859	58.881	18.883	25.534	1.00	68.42
ATCM	19144	O	AIA	2859	58.796	17.866	24.864	1.00	68.14
ATCM	19145	N	GLY	2860	58.861	18.879	25.824	1.00	67.64
ATCM	19146	CA	GLY	2860	58.868	19.071	25.858	1.00	67.35
ATCM	19147	C	GLY	2860	58.876	17.829	22.913	1.00	64.41
ATCM	19148	O	GLY	2860	58.881	17.784	21.748	1.00	64.15
ATCM	19149	N	A.P	2861	58.791	17.887	22.760	1.00	67.48
ATCM	19150	CF	AIP	2861	58.791	15.876	22.403	1.00	62.53
ATCM	19151	CF	AIP	2861	60.439	15.801	22.331	1.00	62.67
ATCM	19152	CG	AIP	2861	61.381	16.138	22.379	1.00	63.21
ATCM	19153	CI1	ASP	2861	61.627	16.888	21.371	1.00	61.95
ATCM	19154	CI2	AIP	2861	62.387	16.838	22.387	1.00	63.46
ATCM	19155	O	AIP	2861	58.969	14.811	22.326	1.00	61.69
ATCM	19156	O	ASP	2861	58.876	13.860	21.913	1.00	61.58
ATCM	19157	N	GLN	2862	58.881	14.881	22.122	1.00	60.47
ATCM	19158	CA	GLN	2862	58.881	14.881	24.107	1.00	59.44
ATCM	19159	CF	GLN	2862	58.881	14.881	25.670	1.00	59.54
ATCM	19160	CI	GLN	2862	58.881	13.868	26.950	1.00	59.67
ATCM	19161	CI	GLN	2862	58.881	12.856	26.956	1.00	59.67
ATCM	19162	OE1	GLN	2862	58.881	11.843	26.958	1.00	60.86
ATCM	19163	OE2	GLN	2862	58.881	11.843	25.360	1.00	59.63
ATCM	19164	C	GLN	2862	58.881	14.194	22.727	1.00	58.25
ATCM	19165	O	GLN	2862	58.881	13.181	21.907	1.00	58.14
ATCM	19166	N	LEU	2863	58.881	15.439	22.884	1.00	57.96
ATCM	19167	CA	LEU	2863	58.881	15.679	21.951	1.00	56.74
ATCM	19168	CB	LEU	2863	58.881	17.141	21.944	1.00	57.27
ATCM	19169	CG	LEU	2863	58.881	17.484	23.111	1.00	57.78
ATCM	19170	CI1	LEU	2863	58.881	19.385	21.973	1.00	58.08
ATCM	19171	CI2	LEU	2863	58.881	17.437	23.197	1.00	57.79
ATCM	19172	C	LEU	2863	58.881	15.423	20.380	1.00	56.01
ATCM	19173	O	LEU	2863	58.881	14.584	19.711	1.00	56.51
ATCM	19174	N	LEU	2864	55.230	13.313	20.168	1.00	54.58
ATCM	19175	CA	LEU	2864	55.700	14.882	18.873	1.00	53.21
ATCM	19176	CB	LEU	2864	57.196	15.417	18.896	1.00	53.69
ATCM	19177	CG	LEU	2864	57.533	15.437	17.115	1.00	54.16
ATCM	19178	CI1	LEU	2864	58.881	16.342	17.147	1.00	54.57
ATCM	19179	CI2	LEU	2864	57.911	14.943	16.859	1.00	53.90
ATCM	19180	C	LEU	2864	55.707	13.315	18.779	1.00	51.65
ATCM	19181	O	LEU	2864	55.436	12.717	17.847	1.00	50.82
ATCM	19182	N	SEP	2865	55.954	12.781	20.153	1.00	49.64
ATCM	19183	CA	SEP	2865	55.975	11.332	20.109	1.00	47.66
ATCM	19184	CB	SEP	2865	56.533	10.954	21.131	1.00	46.62
ATCM	19185	CG	SEP	2865	56.533	9.548	21.149	1.00	44.01
ATCM	19186	C	SEP	2865	54.561	10.774	20.632	1.00	45.80
ATCM	19187	O	SEP	2865	54.316	9.778	19.867	1.00	44.53
ATCM	19188	N	ASP	2866	53.659	11.417	21.130	1.00	44.91
ATCM	19189	CA	ASP	2866	53.659	10.976	21.615	1.00	41.18
ATCM	19190	CF	ASP	2866	51.314	11.732	21.631	1.00	45.13
ATCM	19191	CG	ASP	2866	51.713	11.514	23.030	1.00	43.93
ATCM	19192	CI1	ASP	2866	51.933	10.332	23.462	1.00	41.39
ATCM	19193	CI2	ASP	2866	51.713	12.439	23.875	1.00	46.11
ATCM	19194	C	ASP	2866	51.637	11.180	14.273	1.00	44.24
ATCM	19195	O	ASP	2866	50.975	10.329	15.694	1.00	45.01
ATCM	19196	N	ALA	2867	52.043	12.310	18.676	1.00	43.95
ATCM	19197	CA	ALA	2867	51.613	12.610	17.267	1.00	41.30
ATCM	19198	CB	ALA	2867	52.178	13.952	16.820	1.00	40.39
ATCM	19199	C	ALA	2867	52.077	11.498	16.328	1.00	40.67
ATCM	19200	O	ALA	2867	51.325	11.051	15.461	1.00	38.64
ATCM	19201	N	SEP	2868	53.419	11.952	14.566	1.00	39.59

ATOM	19202	CA	LEU	2868	53.862	9.982	15.674	1.00	29.13
ATOM	19203	CB	LEU	2868	55.375	9.852	15.881	1.00	29.80
ATOM	19204	CG	LEU	2868	56.253	10.908	15.223	1.00	39.60
ATOM	19205	CD1	LEU	2868	57.701	10.724	15.682	1.00	40.79
ATOM	19206	CD2	LEU	2868	56.167	10.790	13.709	1.00	40.12
ATOM	19207	C	LEU	2868	53.189	8.655	16.003	1.00	38.24
ATOM	19208	O	LEU	2868	52.981	7.811	15.124	1.00	37.72
ATOM	19209	N	ALA	2869	52.853	8.470	17.255	1.00	38.58
ATOM	19210	CA	ALA	2869	52.147	7.246	17.723	1.00	38.98
ATOM	19211	CB	ALA	2869	52.146	7.206	19.245	1.00	38.72
ATOM	19212	C	ALA	2869	50.782	7.165	17.157	1.00	38.13
ATOM	19213	O	ALA	2869	50.346	6.109	16.699	1.00	37.63
ATOM	19214	N	LEU	2870	50.070	8.287	17.195	1.00	37.67
ATOM	19215	CA	LEU	2870	48.735	8.349	16.664	1.00	37.01
ATOM	19216	CB	LEU	2870	48.091	9.719	16.990	1.00	37.82
ATOM	19217	CG	LEU	2870	47.975	10.070	18.471	1.00	38.77
ATOM	19218	CD1	LEU	2870	47.717	11.130	18.606	1.00	37.65
ATOM	19219	CD2	LEU	2870	46.842	9.171	19.087	1.00	37.97
ATOM	19220	C	LEU	2870	48.723	8.099	15.180	1.00	37.14
ATOM	19221	O	LEU	2870	47.886	7.811	14.685	1.00	37.14
ATOM	19222	N	GLU	2871	48.642	8.851	14.468	1.00	37.01
ATOM	19223	CA	GLU	2871	48.117	8.488	13.947	1.00	37.01
ATOM	19224	CB	GLU	2871	50.882	8.138	12.501	1.00	37.99
ATOM	19225	CG	GLU	2871	51.193	8.165	11.011	1.00	37.67
ATOM	19226	CD	GLU	2871	52.835	8.974	10.518	1.00	37.78
ATOM	19227	O	GLU	2871	52.477	8.806	11.085	1.00	37.78
ATOM	19228	OE1	GLU	2871	52.135	10.766	9.567	1.00	37.80
ATOM	19229	C	GLU	2871	50.661	7.019	12.915	1.00	37.14
ATOM	19230	O	GLU	2871	49.348	6.360	11.811	1.00	37.10
ATOM	19231	N	ALA	2872	50.835	6.191	13.451	1.00	37.91
ATOM	19232	CA	ALA	2872	51.136	6.868	13.021	1.00	37.98
ATOM	19233	CB	ALA	2872	52.136	6.188	14.078	1.00	37.67
ATOM	19234	C	ALA	2872	50.110	4.095	13.544	1.00	37.80
ATOM	19235	O	ALA	2872	49.839	3.020	12.965	1.00	37.80
ATOM	19236	N	ALA	2873	49.134	4.181	14.468	1.00	37.14
ATOM	19237	CA	ALA	2873	48.086	3.812	14.899	1.00	37.10
ATOM	19238	CB	ALA	2873	47.738	4.449	16.185	1.00	37.72
ATOM	19239	C	ALA	2873	47.010	3.815	13.818	1.00	37.11
ATOM	19240	O	ALA	2873	46.178	3.835	13.782	1.00	37.45
ATOM	19241	N	GLY	2874	47.014	4.021	12.939	1.00	37.88
ATOM	19242	CA	GLY	2874	46.009	3.883	11.874	1.00	37.96
ATOM	19243	C	GLY	2874	45.136	6.135	11.085	1.00	37.10
ATOM	19244	O	GLY	2874	44.639	6.428	10.736	1.00	37.45
ATOM	19245	N	ALA	2875	45.671	7.175	12.583	1.00	37.10
ATOM	19246	CA	ALA	2875	45.335	8.502	12.481	1.00	37.83
ATOM	19247	CB	ALA	2875	45.286	9.368	12.640	1.00	37.66
ATOM	19248	C	ALA	2875	45.462	9.114	11.147	1.00	37.01
ATOM	19249	O	ALA	2875	46.634	9.176	10.768	1.00	37.07
ATOM	19250	N	GLN	2876	44.486	8.879	10.436	1.00	37.85
ATOM	19251	CA	GLN	2876	44.334	10.374	9.148	1.00	37.07
ATOM	19252	CB	GLN	2876	43.834	9.895	8.141	1.00	37.31
ATOM	19253	CG	GLN	2876	43.382	8.393	7.917	1.00	37.27
ATOM	19254	CD	GLN	2876	42.814	7.880	6.922	1.00	37.64
ATOM	19255	OE1	GLN	2876	42.835	8.338	5.720	1.00	37.90
ATOM	19256	NEU	GLN	2876	42.459	7.346	2.417	1.00	37.00
ATOM	19257	C	GLN	2876	44.116	11.842	9.270	1.00	37.16
ATOM	19258	O	GLN	2876	44.871	12.356	8.178	1.00	37.11
ATOM	19259	N	LEU	2877	44.860	12.321	10.500	1.00	37.11
ATOM	19260	CA	LEU	2877	44.847	13.756	10.754	1.00	37.91
ATOM	19261	CB	LEU	2877	43.154	14.329	10.547	1.00	37.11
ATOM	19262	CG	LEU	2877	42.060	15.163	9.283	1.00	37.74
ATOM	19263	CD1	LEU	2877	41.105	15.394	9.178	1.00	37.26
ATOM	19264	CD2	LEU	2877	43.877	15.333	9.131	1.00	37.89
ATOM	19265	C	LEU	2877	44.833	13.456	12.344	1.00	37.30
ATOM	19266	O	LEU	2877	44.750	13.117	12.090	1.00	37.42
ATOM	19267	N	LEU	2878	45.465	15.178	12.522	1.00	37.38
ATOM	19268	CA	LEU	2878	45.675	15.355	13.873	1.00	38.15
ATOM	19269	CB	LEU	2878	47.079	15.648	14.052	1.00	37.99
ATOM	19270	CG	LEU	2878	47.044	15.762	15.418	1.00	38.15
ATOM	19271	CD1	LEU	2878	47.332	14.906	16.517	1.00	37.53
ATOM	19272	CD2	LEU	2878	48.358	15.611	15.411	1.00	38.68
ATOM	19273	C	LEU	2878	45.635	13.317	14.151	1.00	39.13
ATOM	19274	O	LEU	2878	45.609	12.861	13.252	1.00	39.08
ATOM	19275	N	VAL	2879	45.162	17.309	15.393	1.00	41.38
ATOM	19276	CA	VAL	2879	44.630	18.678	15.793	1.00	42.90
ATOM	19277	CB	VAL	2879	44.642	18.728	16.231	1.00	42.79
ATOM	19278	CD1	VAL	2879	45.183	17.126	16.883	1.00	42.71

ATOM	19279	CG2	VAL	2879	42.433	18.384	15.086	1.00	41.99
ATOM	19280	C	VAL	2879	45.760	19.133	16.949	1.00	44.01
ATOM	19281	O	VAL	2879	48.791	18.468	17.983	1.00	43.86
ATOM	19282	N	LEU	2880	46.352	20.276	16.760	1.00	45.45
ATOM	19283	CA	LEU	2880	47.111	20.851	17.781	1.00	47.07
ATOM	19284	CB	LEU	2880	48.164	21.261	17.170	1.00	47.00
ATOM	19285	CG	LEU	2880	49.446	20.138	16.632	1.00	47.19
ATOM	19286	CD1	LEU	2880	50.688	20.725	15.975	1.00	48.71
ATOM	19287	CD2	LEU	2880	49.822	19.201	17.770	1.00	47.63
ATOM	19288	C	LEU	2880	46.539	22.073	18.381	1.00	48.19
ATOM	19289	O	LEU	2880	46.113	22.021	17.667	1.00	46.54
ATOM	19290	N	GLU	2881	46.226	22.047	19.692	1.00	49.26
ATOM	19291	CA	GLU	2881	45.648	23.154	20.377	1.00	51.27
ATOM	19292	CB	GLU	2881	44.478	22.631	21.186	1.00	51.11
ATOM	19293	CG	GLU	2881	43.547	23.724	21.684	1.00	51.63
ATOM	19294	CD	GLU	2881	42.497	23.196	22.621	1.00	51.94
ATOM	19295	DE1	GLU	2881	41.810	22.220	22.271	1.00	51.97
ATOM	19296	DE2	GLU	2881	42.758	23.756	23.740	1.00	55.44
ATOM	19297	C	GLU	2881	46.119	25.894	22.104	1.00	51.45
ATOM	19298	O	GLU	2881	47.177	25.709	22.109	1.00	51.90
ATOM	19299	N	CYS	2882	45.848	25.183	21.008	1.00	53.90
ATOM	19300	CA	CYS	2882	47.761	26.033	21.802	1.00	55.11
ATOM	19301	CB	CYS	2882	47.608	26.198	23.119	1.00	55.59
ATOM	19302	CG	CYS	2882	48.796	25.473	22.945	1.00	57.16
ATOM	19303	C	CYS	2882	49.654	25.381	22.695	1.00	55.15
ATOM	19304	O	CYS	2882	49.091	24.723	23.119	1.00	55.61
ATOM	19305	N	VAL	2883	49.274	25.550	21.158	1.00	55.88
ATOM	19306	CA	VAL	2883	51.112	25.006	21.164	1.00	56.34
ATOM	19307	CB	VAL	2883	51.134	25.006	20.641	1.00	56.77
ATOM	19308	CG1	VAL	2883	50.703	25.713	19.150	1.00	57.14
ATOM	19309	CG2	VAL	2883	50.704	25.079	20.664	1.00	56.92
ATOM	19310	C	VAL	2883	52.291	25.849	20.168	1.00	56.70
ATOM	19311	O	VAL	2883	51.087	26.489	19.102	1.00	56.49
ATOM	19312	N	PRO	2884	53.475	26.513	21.167	1.00	56.87
ATOM	19313	CA	PRO	2884	54.001	25.483	22.042	1.00	56.82
ATOM	19314	CB	PRO	2884	54.477	25.663	20.145	1.00	56.83
ATOM	19315	CG	PRO	2884	55.697	26.163	21.419	1.00	56.72
ATOM	19316	CD	PRO	2884	56.503	25.481	22.019	1.00	57.13
ATOM	19317	C	PRO	2884	54.747	26.713	19.705	1.00	57.27
ATOM	19318	O	PRO	2884	54.799	25.162	18.766	1.00	57.23
ATOM	19319	N	VAL	2885	54.683	27.273	18.150	1.00	56.96
ATOM	19320	CA	VAL	2885	54.908	27.564	16.818	1.00	57.68
ATOM	19321	CB	VAL	2885	55.176	28.913	16.119	1.00	57.41
ATOM	19322	CG1	VAL	2885	55.141	28.747	14.620	1.00	57.11
ATOM	19323	CG2	VAL	2885	54.156	29.942	16.578	1.00	57.26
ATOM	19324	C	VAL	2885	56.073	28.682	16.119	1.00	58.32
ATOM	19325	O	VAL	2885	56.046	25.867	15.553	1.00	58.54
ATOM	19326	N	GLU	2886	57.113	29.271	17.358	1.00	58.72
ATOM	19327	CA	GLU	2886	58.339	25.806	17.194	1.00	58.51
ATOM	19328	CB	GLU	2886	59.027	26.133	18.341	1.00	59.10
ATOM	19329	CG	GLU	2886	59.379	27.632	18.763	1.00	59.54
ATOM	19330	CD	GLU	2886	59.513	28.543	17.586	1.00	59.84
ATOM	19331	DE1	GLU	2886	60.165	28.367	16.779	1.00	60.96
ATOM	19332	DE2	GLU	2886	58.111	29.483	17.175	1.00	59.29
ATOM	19333	C	GLU	2886	57.937	34.334	17.164	1.00	59.29
ATOM	19334	O	GLU	2886	58.373	33.659	16.287	1.00	57.63
ATOM	19335	N	LEU	2887	57.131	33.975	14.134	1.00	57.62
ATOM	19336	CA	LEU	2887	56.706	32.546	14.111	1.00	57.41
ATOM	19337	CB	LEU	2887	55.317	32.371	14.340	1.00	56.08
ATOM	19338	CG	LEU	2887	56.311	31.113	20.363	1.00	55.97
ATOM	19339	CD1	LEU	2887	55.545	31.140	21.568	1.00	55.92
ATOM	19340	CD2	LEU	2887	56.075	19.875	19.576	1.00	55.54
ATOM	19341	C	LEU	2887	55.333	22.193	17.066	1.00	57.47
ATOM	19342	O	LEU	2887	55.913	21.086	16.719	1.00	57.79
ATOM	19343	N	ALA	2888	54.941	33.162	14.639	1.00	57.65
ATOM	19344	CA	ALA	2888	54.011	32.861	14.109	1.00	57.47
ATOM	19345	CB	ALA	2888	53.133	34.051	15.006	1.00	57.84
ATOM	19346	C	ALA	2888	54.859	32.604	14.119	1.00	57.89
ATOM	19347	O	ALA	2888	54.491	31.751	13.411	1.00	57.53
ATOM	19348	N	LYS	2889	55.944	33.352	14.119	1.00	57.62
ATOM	19349	CA	LYS	2889	56.730	33.211	12.362	1.00	57.71
ATOM	19350	CB	LYS	2889	57.952	24.205	12.929	1.00	58.61
ATOM	19351	CG	LYS	2889	57.518	25.662	12.962	1.00	60.67
ATOM	19352	CD	LYS	2889	58.694	26.590	13.263	1.00	62.37
ATOM	19353	CE	LYS	2889	58.243	28.043	13.347	1.00	62.84
ATOM	19354	NE	LYS	2889	59.353	28.956	13.329	1.00	62.21
ATOM	19355	C	LYS	2889	57.337	21.794	12.153	1.00	57.18

ATOM	19356	O	LYS	2889	57.302	21.180	11.696	1.00	57.17
ATOM	19357	N	ARG	2890	57.840	21.281	13.881	1.00	56.24
ATOM	19358	CA	ARG	2890	58.401	19.936	13.923	1.00	55.63
ATOM	19359	CB	ARG	2890	58.973	19.659	15.311	1.00	56.65
ATOM	19360	CG	ARG	2890	60.157	20.501	15.697	1.00	58.26
ATOM	19361	CD	ARG	2890	60.844	19.945	16.974	1.00	60.00
ATOM	19362	NE	ARG	2890	59.947	19.894	18.024	1.00	61.53
ATOM	19363	CZ	ARG	2890	60.160	19.244	19.224	1.00	62.29
ATOM	19364	NH1	ARG	2890	61.451	18.781	19.435	1.00	62.17
ATOM	19365	NH2	ARG	2890	59.381	19.349	20.146	1.00	61.05
ATOM	19366	O	ARG	2890	57.864	18.880	13.175	1.00	54.19
ATOM	19367	C	ARG	2890	57.002	18.182	12.114	1.00	53.84
ATOM	19368	N	ILE	2891	56.429	18.550	14.401	1.00	52.97
ATOM	19369	CA	ILE	2891	55.156	17.876	14.102	1.00	51.09
ATOM	19370	CB	ILE	2891	54.699	18.088	15.187	1.00	51.37
ATOM	19371	CG2	ILE	2891	52.870	17.095	14.337	1.00	50.95
ATOM	19372	CG1	ILE	2891	54.613	17.981	16.026	1.00	50.98
ATOM	19373	GD1	ILE	2891	57.098	18.282	17.826	1.00	50.45
ATOM	19374	C	ILE	2891	54.312	17.874	17.771	1.00	50.48
ATOM	19375	O	ILE	2891	54.621	16.835	17.106	1.00	50.45
ATOM	19376	N	THR	2892	54.358	19.009	12.316	1.00	49.45
ATOM	19377	CA	THR	2892	53.816	18.220	12.005	1.00	48.23
ATOM	19378	CB	THR	2892	53.357	20.723	12.827	1.00	48.80
ATOM	19379	CG1	THR	2892	51.832	21.275	11.803	1.00	49.13
ATOM	19380	CG2	THR	2892	52.827	20.843	9.149	1.00	48.85
ATOM	19381	C	THR	2892	54.400	18.649	9.908	1.00	49.30
ATOM	19382	O	THR	2892	54.180	18.005	8.965	1.00	48.83
ATOM	19383	N	GLU	2893	56.341	18.878	10.006	1.00	49.78
ATOM	19384	CA	GLU	2893	55.007	18.338	9.008	1.00	50.33
ATOM	19385	CB	GLU	2893	53.345	19.128	8.043	1.00	51.93
ATOM	19386	CG	GLU	2893	51.809	20.600	7.440	1.00	54.14
ATOM	19387	CD	GLU	2893	56.355	21.432	8.163	1.00	55.53
ATOM	19388	OE1	GLU	2893	60.336	21.606	9.136	1.00	55.46
ATOM	19389	OE2	GLU	2893	58.377	21.737	6.922	1.00	56.23
ATOM	19390	C	GLU	2893	57.423	18.953	8.001	1.00	49.42
ATOM	19391	O	GLU	2893	57.651	18.243	8.128	1.00	49.43
ATOM	19392	N	ALA	2894	57.174	18.487	10.509	1.00	48.11
ATOM	19393	CA	ALA	2894	57.118	15.131	11.001	1.00	46.74
ATOM	19394	CB	ALA	2894	58.318	15.009	12.001	1.00	46.75
ATOM	19395	C	ALA	2894	56.338	14.115	10.004	1.00	45.44
ATOM	19396	O	ALA	2894	56.221	12.500	10.009	1.00	45.28
ATOM	19397	N	LEU	2895	55.100	14.608	10.000	1.00	44.09
ATOM	19398	CA	LEU	2895	54.197	13.740	10.112	1.00	42.66
ATOM	19399	CB	LEU	2895	52.845	14.000	10.982	1.00	43.61
ATOM	19400	CG	LEU	2895	52.966	13.940	12.450	1.00	43.86
ATOM	19401	CD1	LEU	2895	51.651	14.003	13.105	1.00	44.39
ATOM	19402	CD2	LEU	2895	50.350	12.500	12.324	1.00	45.06
ATOM	19403	C	LEU	2895	53.377	13.804	8.681	1.00	41.50
ATOM	19404	O	LEU	2895	53.487	14.973	8.067	1.00	41.74
ATOM	19405	N	ALA	2896	53.384	12.776	8.009	1.00	39.31
ATOM	19406	CA	ALA	2896	53.320	11.509	6.597	1.00	37.81
ATOM	19407	CB	ALA	2896	54.330	11.500	6.003	1.00	37.19
ATOM	19408	C	ALA	2896	51.358	11.508	6.568	1.00	37.41
ATOM	19409	O	ALA	2896	51.344	13.719	5.408	1.00	38.35
ATOM	19410	N	ILE	2897	50.376	12.804	7.339	1.00	37.72
ATOM	19411	CA	ILE	2897	49.359	13.202	7.610	1.00	37.82
ATOM	19412	CB	ILE	2897	48.389	12.404	8.072	1.00	38.19
ATOM	19413	CG2	ILE	2897	48.362	10.908	8.082	1.00	35.92
ATOM	19414	CG1	ILE	2897	49.237	12.602	9.947	1.00	36.77
ATOM	19415	GD1	ILE	2897	49.490	11.937	11.063	1.00	38.83
ATOM	19416	C	ILE	2897	49.202	14.706	7.925	1.00	38.40
ATOM	19417	O	ILE	2897	49.987	15.234	8.585	1.00	37.90
ATOM	19418	N	PRO	2898	46.180	15.334	7.347	1.00	35.51
ATOM	19419	CA	PRO	2898	47.113	14.736	8.397	1.00	38.81
ATOM	19420	CB	PRO	2898	47.953	16.701	7.193	1.00	39.39
ATOM	19421	CG	PRO	2898	46.729	17.000	8.329	1.00	39.31
ATOM	19422	CD	PRO	2898	46.601	15.739	6.601	1.00	40.01
ATOM	19423	C	PRO	2898	47.730	17.007	8.466	1.00	40.59
ATOM	19424	O	PRO	2898	46.958	16.331	8.665	1.00	40.50
ATOM	19425	N	VAL	2899	48.375	18.138	9.341	1.00	40.40
ATOM	19426	CA	VAL	2899	48.253	18.309	10.732	1.00	40.89
ATOM	19427	CB	VAL	2899	49.631	19.739	11.184	1.00	41.08
ATOM	19428	CG1	VAL	2899	49.487	19.009	12.452	1.00	40.58
ATOM	19429	CG2	VAL	2899	50.443	17.137	11.334	1.00	41.04
ATOM	19430	C	VAL	2899	47.484	18.682	10.342	1.00	41.61
ATOM	19431	O	VAL	2899	48.993	20.944	10.594	1.00	42.66
ATOM	19432	N	ILE	2899	46.154	19.797	11.334	1.00	41.89

ATCM	19433	CA	ILE	2900	45.409	20.973	11.588	1.00	40.80
ATCM	19434	CB	ILE	2900	43.918	20.589	11.510	1.00	40.42
ATCM	19435	CG2	ILE	2900	43.046	21.318	11.739	1.00	40.14
ATCM	19436	CG1	ILE	2900	43.617	19.954	10.146	1.00	40.12
ATCM	19437	CD1	ILE	2900	42.117	19.401	10.000	1.00	38.74
ATCM	19438	C	ILE	2900	45.700	11.539	11.943	1.00	40.37
ATCM	19439	O	ILE	2900	45.760	10.307	13.955	1.00	40.36
ATCM	19440	N	GLY	2901	45.890	12.913	11.964	1.00	40.33
ATCM	19441	CA	GLY	2901	46.189	15.576	14.219	1.00	39.83
ATCM	19442	C	GLY	2901	45.312	14.771	14.534	1.00	39.83
ATCM	19443	O	GLY	2901	44.734	15.400	13.644	1.00	39.23
ATCM	19444	N	ILE	2902	45.190	15.371	15.822	1.00	40.24
ATCM	19445	CA	ILE	2902	44.414	16.203	16.287	1.00	41.59
ATCM	19446	CB	ILE	2902	43.043	15.758	16.859	1.00	41.56
ATCM	19447	CG2	ILE	2902	43.131	14.634	15.871	1.00	39.46
ATCM	19448	CG1	ILE	2902	42.333	16.957	15.490	1.00	42.13
ATCM	19449	CD1	ILE	2902	40.889	16.696	15.857	1.00	42.11
ATCM	19450	C	ILE	2902	43.111	16.913	15.164	1.00	42.10
ATCM	19451	O	ILE	2902	43.401	16.195	15.468	1.00	41.71
ATCM	19452	N	GLA	2903	43.719	18.096	15.037	1.00	44
ATCM	19453	CA	GLA	2903	44.111	18.345	15.971	1.00	45.13
ATCM	19454	O	GLA	2903	43.833	18.154	18.068	1.00	46.11
ATCM	19455	C	GLA	2903	43.711	18.318	18.136	1.00	46.13
ATCM	19456	N	ALA	2904	48.407	15.111	15.991	1.00	46.61
ATCM	19457	CA	ALA	2904	49.771	15.191	16.387	1.00	46.63
ATCM	19458	CB	ALA	2904	49.184	15.194	16.771	1.00	46.64
ATCM	19459	C	ALA	2904	50.333	15.674	15.749	1.00	46.66
ATCM	19460	O	ALA	2904	51.311	15.174	15.461	1.00	46.63
ATCM	19461	N	GLA	2905	50.111	18.111	15.100	1.00	47.11
ATCM	19462	CA	GLY	2905	50.769	19.351	18.004	1.00	47.43
ATCM	19463	C	GLY	2905	50.190	18.400	15.004	1.00	48.03
ATCM	19464	O	GLY	2905	49.474	18.427	15.517	1.00	48.13
ATCM	19465	N	ASN	2906	50.833	19.128	15.591	1.00	47.43
ATCM	19466	CA	ASN	2906	50.439	19.113	16.221	1.00	47.13
ATCM	19467	CB	ASN	2906	50.411	19.188	15.111	1.00	46.13
ATCM	19468	CG	ASN	2906	51.711	15.187	15.344	1.00	46.13
ATCM	19469	CD1	ASN	2906	51.840	22.104	15.674	1.00	47.13
ATCM	19470	CD2	ASN	2906	52.533	20.844	16.039	1.00	45.73
ATCM	19471	C	ASN	2906	51.874	18.190	15.585	1.00	47.11
ATCM	19472	O	ASN	2906	51.111	18.301	15.360	1.00	46.03
ATCM	19473	N	VAL	2907	52.111	15.131	15.418	1.00	47.03
ATCM	19474	CA	VAL	2907	52.111	16.128	15.941	1.00	47.03
ATCM	19475	CB	VAL	2907	54.234	16.169	10.980	1.00	48.03
ATCM	19476	CG1	VAL	2907	53.080	15.336	10.794	1.00	49.33
ATCM	19477	CG2	VAL	2907	54.800	27.584	11.404	1.00	48.66
ATCM	19478	C	VAL	2907	52.415	25.104	9.645	1.00	47.43
ATCM	19479	O	VAL	2907	50.871	24.419	8.816	1.00	46.61
ATCM	19480	N	THR	2908	51.199	24.365	10.316	1.00	46.13
ATCM	19481	CA	THR	2908	50.588	23.737	10.154	1.00	46.13
ATCM	19482	CB	THR	2908	49.397	23.644	11.145	1.00	46.13
ATCM	19483	CG1	THR	2908	48.608	24.845	11.095	1.00	47.13
ATCM	19484	CG2	THR	2908	49.811	23.460	11.510	1.00	45.13
ATCM	19485	C	THR	2908	49.833	23.648	8.771	1.00	47.13
ATCM	19486	O	THR	2908	49.831	24.649	8.013	1.00	47.13
ATCM	19487	N	ASP	2909	49.839	22.436	8.316	1.00	46.13
ATCM	19488	CA	ASP	2909	49.647	22.204	6.989	1.00	47.13
ATCM	19489	CB	ASP	2909	48.834	20.166	6.718	1.00	47.13
ATCM	19490	CG	ASP	2909	50.111	20.399	6.906	1.00	48.13
ATCM	19491	OD1	ASP	2909	51.148	20.399	6.127	1.00	49.03
ATCM	19492	GLN	ASP	2909	50.111	15.181	7.836	1.00	47.13
ATCM	19493	C	ASP	2909	47.666	22.341	6.832	1.00	47.13
ATCM	19494	O	ASP	2909	45.111	21.119	5.717	1.00	46.13
ATCM	19495	N	GLY	2910	46.833	23.357	7.956	1.00	46.13
ATCM	19496	CA	GLY	2910	45.811	23.631	7.914	1.00	46.13
ATCM	19497	C	GLY	2910	45.111	24.447	9.163	1.00	45.53
ATCM	19498	O	GLY	2910	44.111	24.473	10.115	1.00	44.13
ATCM	19499	N	GLN	2911	46.166	25.007	9.157	1.00	45.33
ATCM	19500	CA	GLN	2911	43.111	25.863	10.192	1.00	46.13
ATCM	19501	CB	GLN	2911	43.111	27.337	9.990	1.00	46.13
ATCM	19502	CG	GLN	2911	45.111	27.843	9.978	1.00	44.13
ATCM	19503	CH	GLN	2911	46.111	27.649	11.167	1.00	44.03
ATCM	19504	OD1	GLN	2911	45.634	27.967	10.146	1.00	43.63
ATCM	19505	NEH	GLN	2911	47.305	27.193	11.043	1.00	44.13
ATCM	19506	C	GLN	2911	42.150	25.517	10.619	1.00	47.63
ATCM	19507	O	GLN	2911	41.487	25.113	9.771	1.00	46.13
ATCM	19508	N	ILE	2912	41.667	24.155	11.889	1.00	48.13
ATCM	19509	CA	ILE	2912	40.490	24.131	12.176	1.00	48.13

ATOM	19510	CB	ILE	2912	40.020	24.298	13.023	1.00	50.95
ATOM	19511	CG2	ILE	2912	41.195	24.257	14.270	1.00	51.75
ATOM	19512	CG1	ILE	2912	38.849	24.088	13.376	1.00	51.24
ATOM	19513	CD1	ILE	2912	38.484	27.841	13.645	1.00	52.84
ATOM	19514	C	ILE	2912	40.693	28.806	13.205	1.00	50.85
ATOM	19515	C	ILE	2912	40.870	27.122	14.064	1.00	51.15
ATOM	19516	N	LEU	2913	38.889	23.334	13.003	1.00	51.43
ATOM	19517	CA	LEU	2913	38.417	25.456	13.808	1.00	51.62
ATOM	19518	CB	LEU	2913	38.166	25.760	13.011	1.00	52.42
ATOM	19519	CG	LEU	2913	39.031	31.024	13.747	1.00	53.65
ATOM	19520	CD1	LEU	2913	39.735	32.140	13.739	1.00	57.91
ATOM	19521	CE2	LEU	2913	38.016	31.436	14.862	1.00	54.69
ATOM	19522	C	LEU	2913	36.964	28.177	14.140	1.00	50.62
ATOM	19523	C	LEU	2913	36.170	23.829	13.553	1.00	50.20
ATOM	19524	N	VAL	2914	36.627	23.853	13.889	1.00	49.32
ATOM	19525	CA	VAL	2914	35.174	25.778	13.927	1.00	47.68
ATOM	19526	CE	VAL	2914	35.175	25.908	13.455	1.00	48.66
ATOM	19527	CG1	VAL	2914	35.817	23.858	13.000	1.00	49.18
ATOM	19528	CC1	VAL	2914	36.168	23.880	13.050	1.00	47.75
ATOM	19529	C	VAL	2914	34.462	23.896	13.714	1.00	46.17
ATOM	19530	C	VAL	2914	34.771	13.892	13.801	1.00	45.66
ATOM	19531	N	MET	2915	33.486	23.870	13.196	1.00	47.97
ATOM	19532	CA	MET	2915	32.649	23.863	13.839	1.00	42.97
ATOM	19533	CB	MET	2915	31.500	23.873	13.106	1.00	40.84
ATOM	19534	CG	MET	2915	36.616	23.873	13.000	1.00	38.03
ATOM	19535	CD	MET	2915	28.958	23.898	13.760	1.00	33.68
ATOM	19536	CE	MET	2915	28.160	23.849	14.183	1.00	34.37
ATOM	19537	C	MET	2915	32.681	13.896	14.113	1.00	42.94
ATOM	19538	C	MET	2915	31.931	13.866	14.168	1.00	42.80
ATOM	19539	N	HIS	2916	31.778	21.856	13.028	1.00	43.84
ATOM	19540	CA	HIS	2916	31.178	23.841	13.047	1.00	43.59
ATOM	19541	CB	HIS	2916	30.829	13.831	13.079	1.00	43.48
ATOM	19542	CG	HIS	2916	29.806	13.886	13.080	1.00	41.85
ATOM	19543	CD2	HIS	2916	29.446	23.890	13.053	1.00	41.06
ATOM	19544	CE1	HIS	2916	28.826	23.815	13.076	1.00	41.74
ATOM	19545	CE1	HIS	2916	27.446	23.888	13.897	1.00	42.32
ATOM	19546	NE2	HIS	2916	28.095	23.870	13.024	1.00	42.00
ATOM	19547	C	HIS	2916	32.151	23.863	13.424	1.00	45.32
ATOM	19548	O	HIS	2916	31.712	13.832	13.071	1.00	43.97
ATOM	19549	N	ASP	2917	33.485	31.824	13.053	1.00	46.12
ATOM	19550	CA	ASP	2917	34.492	33.811	13.039	1.00	47.60
ATOM	19551	CB	ASP	2917	35.762	33.896	13.221	1.00	48.54
ATOM	19552	CG	ASP	2917	35.463	33.845	13.099	1.00	49.88
ATOM	19553	CD1	ASP	2917	35.082	34.802	20.404	1.00	51.84
ATOM	19554	CD2	ASP	2917	35.658	31.801	20.156	1.00	52.51
ATOM	19555	C	ASP	2917	34.835	34.818	13.066	1.00	47.84
ATOM	19556	O	ASP	2917	35.581	35.885	13.017	1.00	49.17
ATOM	19557	N	ALA	2918	34.587	34.860	13.123	1.00	47.13
ATOM	19558	CA	ALA	2918	34.844	34.811	13.833	1.00	46.36
ATOM	19559	CB	ALA	2918	34.308	33.851	13.864	1.00	45.96
ATOM	19560	C	ALA	2918	33.965	33.866	13.463	1.00	46.80
ATOM	19561	O	ALA	2918	34.375	36.807	13.051	1.00	45.86
ATOM	19562	N	PRO	2919	32.780	35.896	13.863	1.00	45.95
ATOM	19563	CA	PRO	2919	32.762	36.899	13.794	1.00	46.31
ATOM	19564	CB	PRO	2919	30.192	36.827	13.874	1.00	47.19
ATOM	19565	CG	PRO	2919	30.758	35.854	13.157	1.00	48.84
ATOM	19566	CD1	PRO	2919	31.476	35.827	13.838	1.00	49.05
ATOM	19567	CD2	PRO	2919	30.824	35.864	13.819	1.00	49.14
ATOM	19568	CE1	PRO	2919	31.698	34.827	34.096	1.00	49.07
ATOM	19569	CE2	PRO	2919	30.440	32.857	13.183	1.00	49.47
ATOM	19570	CZ	PRO	2919	31.177	33.839	13.070	1.00	49.33
ATOM	19571	C	PRO	2919	31.150	33.828	13.051	1.00	49.07
ATOM	19572	O	PRO	2919	30.135	38.893	13.122	1.00	47.84
ATOM	19573	N	GLY	2920	31.332	32.894	13.131	1.00	45.81
ATOM	19574	CA	GLY	2920	31.142	31.812	12.989	1.00	46.87
ATOM	19575	C	GLY	2920	30.782	33.867	12.809	1.00	45.48
ATOM	19576	O	GLY	2920	30.207	33.866	13.830	1.00	45.35
ATOM	19577	N	ILE	2921	36.258	36.854	13.741	1.00	45.30
ATOM	19578	CA	ILE	2921	28.985	36.876	13.886	1.00	47.25
ATOM	19579	CB	ILE	2921	28.439	34.894	13.865	1.00	48.34
ATOM	19580	CG	ILE	2921	27.056	34.851	13.010	1.00	46.13
ATOM	19581	CD1	ILE	2921	28.410	35.801	13.140	1.00	46.06
ATOM	19582	CD1	ILE	2921	28.019	33.835	13.120	1.00	45.17
ATOM	19583	C	ILE	2921	29.010	36.816	13.801	1.00	43.33
ATOM	19584	O	ILE	2921	28.137	36.834	13.816	1.00	43.30
ATOM	19585	N	THR	2922	37.136	35.815	13.271	1.00	50.35
ATOM	19586	CA	THR	2922	36.316	35.822	13.694	1.00	53.99

ATOM	19587	CB	THR	2922	31.599	34.487	21.960	1.00	53.75
ATOM	19588	OG1	THR	2922	32.701	35.209	21.442	1.00	55.46
ATOM	19589	CG2	THR	2922	31.514	35.127	21.287	1.00	55.60
ATOM	19590	C	THR	2922	30.394	34.593	22.476	1.00	56.52
ATOM	19591	O	THR	2922	30.209	33.673	21.915	1.00	57.67
ATOM	19592	N	GLY	2923	30.602	34.483	22.772	1.00	58.60
ATOM	19593	CA	GLY	2923	30.768	33.657	24.621	1.00	61.60
ATOM	19594	C	GLY	2923	31.545	38.803	24.904	1.00	67.68
ATOM	19595	O	GLY	2923	30.961	38.199	23.894	1.00	64.36
ATOM	19596	N	GLY	2924	32.264	38.379	24.167	1.00	64.67
ATOM	19597	CA	GLY	2924	33.688	39.835	23.607	1.00	66.50
ATOM	19598	C	GLY	2924	35.161	39.819	23.890	1.00	67.68
ATOM	19599	O	GLY	2924	36.515	39.989	23.072	1.00	68.28
ATOM	19600	N	HIS	2925	35.461	39.018	25.026	1.00	68.21
ATOM	19601	CA	HIS	2925	36.239	38.748	25.410	1.00	68.98
ATOM	19602	CB	HIS	2925	36.302	38.131	26.924	1.00	71.40
ATOM	19603	CG	HIS	2925	36.512	38.376	27.730	1.00	71.99
ATOM	19604	CD2	HIS	2925	35.806	39.900	28.620	1.00	71.41
ATOM	19605	ND1	HIS	2925	37.178	41.951	25.607	1.00	71.69
ATOM	19606	CE1	HIS	2925	38.501	41.797	26.417	1.00	71.47
ATOM	19607	NE2	HIS	2925	39.181	41.197	19.656	1.00	71.60
ATOM	19608	C	HIS	2925	37.834	37.814	14.654	1.00	68.56
ATOM	19609	O	HIS	2925	37.641	38.114	15.194	1.00	68.44
ATOM	19610	N	ILE	2926	37.441	37.831	17.948	1.00	67.83
ATOM	19611	CA	ILE	2926	37.240	36.916	20.524	1.00	67.07
ATOM	19612	CB	ILE	2926	37.816	36.838	21.019	1.00	67.36
ATOM	19613	CG2	ILE	2926	36.150	37.011	10.641	1.00	67.76
ATOM	19614	CG1	ILE	2926	36.817	37.101	10.691	1.00	67.33
ATOM	19615	CD1	ILE	2926	38.282	38.346	19.132	1.00	67.17
ATOM	19616	C	ILE	2926	39.406	38.114	12.817	1.00	68.38
ATOM	19617	O	ILE	2926	40.166	37.834	11.460	1.00	68.76
ATOM	19618	N	PRO	2927	39.886	38.987	12.517	1.00	67.66
ATOM	19619	CD	PRO	2927	39.835	38.837	11.013	1.00	67.23
ATOM	19620	CA	PRO	2927	41.244	38.583	12.864	1.00	67.79
ATOM	19621	CB	PRO	2927	41.198	37.873	12.613	1.00	67.30
ATOM	19622	CG	PRO	2927	40.168	37.914	11.753	1.00	67.30
ATOM	19623	C	PRO	2927	42.329	38.291	11.814	1.00	64.22
ATOM	19624	O	PRO	2927	41.838	37.832	10.814	1.00	65.33
ATOM	19625	N	LYS	2928	43.139	38.110	22.306	1.00	67.95
ATOM	19626	CA	LYS	2928	44.561	37.810	11.492	1.00	67.10
ATOM	19627	CB	LYS	2928	45.862	38.910	12.182	1.00	67.96
ATOM	19628	CG	LYS	2928	45.843	38.903	13.012	1.00	64.57
ATOM	19629	CD	LYS	2928	44.846	38.105	14.408	1.00	65.11
ATOM	19630	CE	LYS	2928	45.029	37.801	15.408	1.00	65.21
ATOM	19631	NZ	LYS	2928	44.169	38.518	16.651	1.00	64.88
ATOM	19632	C	LYS	2928	44.503	38.007	10.091	1.00	62.38
ATOM	19633	O	LYS	2928	45.163	38.621	19.145	1.00	62.12
ATOM	19634	N	PRO	2929	44.537	37.836	20.043	1.00	61.22
ATOM	19635	CA	PRO	2929	44.536	37.943	18.850	1.00	59.91
ATOM	19636	CB	PRO	2929	44.995	37.550	19.343	1.00	59.84
ATOM	19637	CG	PRO	2929	43.832	37.936	20.134	1.00	60.10
ATOM	19638	CD1	PRO	2929	42.659	38.443	19.695	1.00	60.07
ATOM	19639	CD2	PRO	2929	44.114	38.012	21.511	1.00	60.02
ATOM	19640	CE1	PRO	2929	41.711	38.937	20.444	1.00	59.46
ATOM	19641	CE2	PRO	2929	43.202	38.111	21.338	1.00	60.29
ATOM	19642	CZ	PRO	2929	41.983	38.773	21.348	1.00	59.76
ATOM	19643	C	PRO	2929	43.543	38.008	17.304	1.00	59.23
ATOM	19644	O	PRO	2929	43.570	37.131	16.347	1.00	59.32
ATOM	19645	N	ALA	2930	42.409	38.163	18.127	1.00	57.68
ATOM	19646	CA	ALA	2930	41.212	37.835	17.434	1.00	56.99
ATOM	19647	CB	ALA	2930	39.967	38.139	18.173	1.00	56.84
ATOM	19648	C	ALA	2930	41.217	38.134	16.662	1.00	56.37
ATOM	19649	O	ALA	2930	42.041	38.161	16.836	1.00	56.18
ATOM	19650	N	LYS	2931	43.236	38.517	19.708	1.00	56.19
ATOM	19651	CA	LYS	2931	43.110	38.733	18.332	1.00	56.47
ATOM	19652	CB	LYS	2931	43.110	38.734	18.662	1.00	56.43
ATOM	19653	CG	LYS	2931	41.565	38.013	18.037	1.00	56.83
ATOM	19654	CD	LYS	2931	42.212	38.935	18.839	1.00	57.37
ATOM	19655	CE	LYS	2931	42.283	38.224	17.137	1.00	57.79
ATOM	19656	NZ	LYS	2931	43.308	38.151	19.133	1.00	57.57
ATOM	19657	C	LYS	2931	38.730	38.963	11.481	1.00	56.54
ATOM	19658	O	LYS	2931	38.137	38.059	13.892	1.00	56.44
ATOM	19659	N	ASN	2932	38.202	38.165	14.687	1.00	56.93
ATOM	19660	CA	ASN	2932	36.867	38.510	14.220	1.00	55.89
ATOM	19661	CB	ASN	2932	36.274	38.617	15.095	1.00	55.63
ATOM	19662	CG	ASN	2932	34.735	38.827	14.847	1.00	55.62
ATOM	19663	CD	ASN	2932	34.304	39.747	14.711	1.00	55.24

ATOM	19664	NDP	ASN	2932	34.053	40.111	15.911	1.00	55.48
ATOM	19665	C	ASN	2932	36.946	36.999	12.777	1.00	56.13
ATOM	19666	C	ASN	2932	37.269	40.160	17.527	1.00	56.78
ATOM	19667	N	PHE	2933	36.656	38.115	11.829	1.00	56.14
ATOM	19669	CA	PHE	2933	36.699	38.482	10.432	1.00	57.27
ATOM	19669	CB	PHE	2933	36.815	37.234	9.542	1.00	57.12
ATOM	19670	CG	PHE	2933	38.141	36.540	9.658	1.00	57.30
ATOM	19671	CD1	PHE	2933	38.472	35.809	10.807	1.00	56.85
ATOM	19672	CD2	PHE	2933	39.073	36.621	8.627	1.00	57.13
ATOM	19673	CE1	PHE	2933	39.513	36.209	10.927	1.00	57.60
ATOM	19674	CE2	PHE	2933	40.315	36.606	8.737	1.00	57.30
ATOM	19675	CZ	PHE	2933	40.637	36.249	9.888	1.00	57.81
ATOM	19676	C	PHE	2933	35.471	39.284	10.609	1.00	58.04
ATOM	19677	C	PHE	2933	35.464	39.915	8.957	1.00	58.08
ATOM	19678	N	LEU	2934	34.432	39.242	10.833	1.00	59.10
ATOM	19679	CA	LEU	2934	35.205	39.980	10.556	1.00	59.92
ATOM	19680	CB	LEU	2934	37.050	39.449	11.469	1.00	58.78
ATOM	19681	CG	LEU	2934	36.521	40.100	11.175	1.00	58.63
ATOM	19682	CN1	LEU	2934	36.121	40.110	9.844	1.00	57.10
ATOM	19683	CN2	LEU	2934	38.898	39.670	11.131	1.00	57.76
ATOM	19684	C	LEU	2934	36.426	41.454	10.863	1.00	61.33
ATOM	19685	C	LEU	2934	37.864	40.306	10.104	1.00	61.13
ATOM	19686	N	ALA	2935	34.145	41.701	11.804	1.00	61.38
ATOM	19687	CA	ALA	2935	34.552	43.086	11.273	1.00	64.12
ATOM	19688	CB	ALA	2935	35.128	43.085	13.589	1.00	61.90
ATOM	19689	C	ALA	2935	35.563	43.555	11.188	1.00	65.41
ATOM	19690	O	ALA	2935	33.204	44.902	10.907	1.00	65.96
ATOM	19691	N	GLU	2936	36.129	45.005	10.518	1.00	66.68
ATOM	19692	CA	GLU	2936	37.070	45.533	9.433	1.00	67.61
ATOM	19693	CB	GLU	2936	38.167	42.511	9.109	1.00	68.36
ATOM	19694	CG	GLU	2936	38.961	43.982	10.134	1.00	69.12
ATOM	19695	CD	GLU	2936	39.699	43.070	11.001	1.00	69.89
ATOM	19696	CE1	GLU	2936	39.134	45.933	11.501	1.00	70.61
ATOM	19697	CE2	GLU	2936	40.948	45.044	10.989	1.00	70.16
ATOM	19698	C	GLU	2936	36.716	43.738	8.717	1.00	67.33
ATOM	19699	O	GLU	2936	38.519	44.236	7.718	1.00	67.71
ATOM	19700	N	THR	2937	37.927	41.447	8.711	1.00	67.74
ATOM	19701	CA	THR	2937	37.988	41.646	7.323	1.00	67.13
ATOM	19702	CB	THR	2937	38.961	42.435	6.936	1.00	67.31
ATOM	19703	CG1	THR	2937	37.149	42.736	5.150	1.00	67.13
ATOM	19704	CG2	THR	2937	37.599	41.249	7.048	1.00	67.76
ATOM	19705	C	THR	2937	32.577	41.974	5.757	1.00	66.84
ATOM	19706	O	THR	2937	32.410	44.441	8.863	1.00	66.33
ATOM	19707	N	GLY	2938	31.565	43.650	6.958	1.00	66.14
ATOM	19708	CA	GLY	2938	30.192	43.873	7.371	1.00	65.64
ATOM	19709	C	GLY	2938	29.275	42.753	6.839	1.00	64.38
ATOM	19710	O	GLY	2938	28.054	42.812	7.104	1.00	64.61
ATOM	19711	N	ASP	2939	29.874	41.721	6.553	1.00	63.52
ATOM	19712	CA	ASP	2939	29.123	40.542	5.831	1.00	63.45
ATOM	19713	CB	ASP	2939	29.128	40.535	4.733	1.00	63.45
ATOM	19714	CG	ASP	2939	28.216	39.544	3.636	1.00	63.32
ATOM	19715	CD1	ASP	2939	28.488	38.340	3.839	1.00	63.50
ATOM	19716	CD2	ASP	2939	27.222	39.914	3.041	1.00	63.35
ATOM	19717	C	ASP	2939	29.725	39.277	6.333	1.00	62.43
ATOM	19718	O	ASP	2939	30.928	39.044	6.213	1.00	61.39
ATOM	19719	N	ILE	2940	28.878	38.433	6.931	1.00	61.10
ATOM	19720	CA	ILE	2940	29.310	37.148	7.462	1.00	59.67
ATOM	19721	CB	ILE	2940	28.105	36.342	8.097	1.00	59.30
ATOM	19722	CG2	ILE	2940	28.577	34.996	8.533	1.00	59.62
ATOM	19723	CG1	ILE	2940	27.484	37.136	8.111	1.00	59.19
ATOM	19724	CD1	ILE	2940	26.152	36.472	8.656	1.00	59.93
ATOM	19725	C	ILE	2940	36.933	36.358	6.717	1.00	59.12
ATOM	19726	O	ILE	2940	31.118	35.793	6.863	1.00	57.94
ATOM	19727	N	ARG	2941	29.427	37.171	5.210	1.00	57.35
ATOM	19728	CA	ARG	2941	29.991	36.395	4.134	1.00	56.37
ATOM	19729	CB	ARG	2941	29.133	37.348	5.363	1.00	55.30
ATOM	19730	CG	ARG	2941	27.778	37.525	3.206	1.00	53.72
ATOM	19731	CD	ARG	2941	26.838	37.590	3.913	1.00	52.37
ATOM	19732	NE	ARG	2941	25.994	37.696	3.163	1.00	51.33
ATOM	19733	CZ	ARG	2941	24.891	36.775	3.153	1.00	50.37
ATOM	19734	NH1	ARG	2941	24.907	34.706	4.039	1.00	50.47
ATOM	19735	NH2	ARG	2941	23.793	32.919	3.204	1.00	50.57
ATOM	19736	C	ARG	2941	31.333	35.986	3.721	1.00	57.51
ATOM	19737	O	ARG	2941	32.375	35.253	3.411	1.00	58.07
ATOM	19738	N	ALA	2942	31.394	37.313	3.666	1.00	57.53
ATOM	19739	CA	ALA	2942	32.613	38.001	3.275	1.00	57.14
ATOM	19740	CB	ALA	2942	32.364	38.356	3.243	1.00	57.13

ATOM	19741	C	ALA	2942	33.729	37.663	4.262	1.00	56.97
ATOM	19742	O	ALA	2942	34.882	37.475	3.874	1.00	57.28
ATOM	19743	N	ALA	2943	34.302	37.584	5.540	1.00	56.48
ATOM	19744	CA	ALA	2943	34.338	37.263	6.583	1.00	56.25
ATOM	19745	CP	ALA	2943	34.679	37.369	7.950	1.00	56.65
ATOM	19746	C	ALA	2943	34.896	35.861	6.368	1.00	56.16
ATOM	19747	O	ALA	2943	34.044	35.583	6.712	1.00	56.09
ATOM	19748	N	VAL	2944	34.077	34.984	5.790	1.00	56.16
ATOM	19749	CA	VAL	2944	34.485	32.669	5.526	1.00	55.63
ATOM	19750	CB	VAL	2944	34.279	32.745	5.106	1.00	56.09
ATOM	19751	CG1	VAL	2944	34.745	31.318	4.801	1.00	55.49
ATOM	19752	CG2	VAL	2944	34.234	32.712	6.213	1.00	55.66
ATOM	19753	C	VAL	2944	34.532	33.517	4.420	1.00	55.75
ATOM	19754	O	VAL	2944	34.568	32.969	4.569	1.00	55.47
ATOM	19755	N	ARG	2945	34.257	34.208	3.311	1.00	55.89
ATOM	19756	CA	ARG	2945	34.188	34.264	2.189	1.00	55.76
ATOM	19757	CB	ARG	2945	34.622	35.094	1.034	1.00	55.60
ATOM	19758	CG	ARG	2945	34.413	34.471	0.356	1.00	56.71
ATOM	19759	CH	ARG	2945	34.101	35.175	-0.956	1.00	57.74
ATOM	19760	NE	ARG	2945	34.575	36.585	-0.760	1.00	57.48
ATOM	19761	CZ	ARG	2945	34.453	35.064	-0.199	1.00	57.88
ATOM	19762	NH1	ARG	2945	34.549	36.163	0.128	1.00	57.70
ATOM	19763	NH2	ARG	2945	34.445	36.167	-0.061	1.00	57.76
ATOM	19764	C	ARG	2945	34.430	34.866	2.615	1.00	55.48
ATOM	19765	O	ARG	2945	34.585	34.775	2.016	1.00	55.77
ATOM	19766	N	GLN	2946	34.491	35.016	1.431	1.00	54.96
ATOM	19767	CA	GLN	2946	34.510	36.510	1.948	1.00	54.86
ATOM	19768	CB	GLN	2946	34.368	35.713	4.163	1.00	55.71
ATOM	19769	CG	GLN	2946	34.774	35.770	5.109	1.00	57.11
ATOM	19770	CD	GLN	2946	34.015	35.681	6.161	1.00	58.47
ATOM	19771	OE1	GLN	2946	34.707	40.478	5.915	1.00	59.00
ATOM	19772	NE2	GLN	2946	34.832	38.763	5.273	1.00	58.59
ATOM	19773	C	GLN	2946	34.482	34.939	4.757	1.00	51.60
ATOM	19774	O	GLN	2946	41.067	35.416	4.600	1.00	51.90
ATOM	19775	N	TYR	2947	34.712	34.764	5.571	1.00	52.27
ATOM	19776	CA	TYR	2947	34.450	32.756	6.426	1.00	50.93
ATOM	19777	CB	TYR	2947	34.232	31.066	5.291	1.00	49.81
ATOM	19778	CG	TYR	2947	34.021	31.739	6.070	1.00	48.56
ATOM	19779	CD1	TYR	2947	34.224	31.667	5.890	1.00	48.01
ATOM	19780	CE1	TYR	2947	44.149	30.761	9.570	1.00	48.01
ATOM	19781	CD2	TYR	2947	34.042	30.639	7.884	1.00	48.25
ATOM	19782	CE2	TYR	2947	34.143	29.467	8.567	1.00	47.36
ATOM	19783	CZ	TYR	2947	34.148	28.959	9.408	1.00	46.00
ATOM	19784	OH	TYR	2947	34.357	28.444	10.087	1.00	46.78
ATOM	19785	C	TYR	2947	44.045	32.679	5.574	1.00	50.64
ATOM	19786	O	TYR	2947	41.185	32.315	5.828	1.00	50.43
ATOM	19787	N	MET	2948	34.333	32.144	4.562	1.00	50.13
ATOM	19788	CA	MET	2948	34.456	31.133	3.650	1.00	50.34
ATOM	19789	CB	MET	2948	34.765	30.803	2.627	1.00	50.00
ATOM	19790	CG	MET	2948	34.518	30.234	3.220	1.00	47.16
ATOM	19791	SD	MET	2948	34.190	30.122	1.996	1.00	48.64
ATOM	19792	CE	MET	2948	34.932	29.063	0.769	1.00	48.77
ATOM	19793	C	MET	2948	41.034	31.731	2.921	1.00	51.53
ATOM	19794	O	MET	2948	41.109	31.008	2.807	1.00	51.21
ATOM	19795	N	ALA	2949	41.001	32.933	2.401	1.00	50.88
ATOM	19796	CA	ALA	2949	41.103	33.543	1.674	1.00	51.33
ATOM	19797	CB	ALA	2949	41.610	34.635	1.033	1.00	51.00
ATOM	19798	C	ALA	2949	41.328	33.769	2.547	1.00	51.80
ATOM	19799	O	ALA	2949	41.457	33.538	2.128	1.00	52.33
ATOM	19800	N	GLU	2950	41.112	34.236	3.756	1.00	52.03
ATOM	19801	CA	GLU	2950	41.222	34.533	4.663	1.00	52.73
ATOM	19802	CB	GLU	2950	41.285	35.373	5.060	1.00	51.53
ATOM	19803	CG	GLU	2950	41.593	36.864	5.622	1.00	53.18
ATOM	19804	CD	GLU	2950	41.213	37.643	6.867	1.00	53.56
ATOM	19805	OE1	GLU	2950	41.647	37.429	7.923	1.00	51.39
ATOM	19806	CE	GLU	2950	41.287	36.438	8.783	1.00	54.73
ATOM	19807	C	GLU	2950	41.471	33.740	5.129	1.00	51.20
ATOM	19808	O	GLU	2950	41.168	33.404	5.413	1.00	51.12
ATOM	19809	N	VAL	2951	41.272	33.213	5.210	1.00	53.26
ATOM	19810	CA	VAL	2951	41.793	33.071	5.647	1.00	51.20
ATOM	19811	CB	VAL	2951	41.849	33.891	5.370	1.00	51.31
ATOM	19812	CG1	VAL	2951	41.588	32.761	6.159	1.00	51.04
ATOM	19813	CG2	VAL	2951	41.035	30.327	7.174	1.00	52.46
ATOM	19814	C	VAL	2951	41.849	30.442	4.568	1.00	53.26
ATOM	19815	O	VAL	2951	41.011	31.146	4.847	1.00	53.25
ATOM	19816	N	GLY	2952	41.348	31.126	3.343	1.00	53.84
ATOM	19817	CA	GLY	2952	41.137	31.866	2.132	1.00	54.20

ATCM	19818	CB	GLU	2952	45.328	29.793	0.947	1.00	54.72
ATCM	19819	CG	GLU	2952	46.082	29.252	-0.261	1.00	55.51
ATCM	19820	CD	GLU	2952	45.277	29.200	-1.532	1.00	56.73
ATCM	19821	OE1	GLU	2952	45.774	28.890	-2.594	1.00	57.69
ATCM	19822	OE2	GLU	2952	44.092	29.750	-1.473	1.00	56.56
ATCM	19823	C	GLU	2952	47.436	30.730	2.027	1.00	54.22
ATCM	19824	O	GLU	2952	48.480	30.166	1.008	1.00	54.53
ATCM	19825	N	SEP	2953	47.162	32.015	1.725	1.00	54.17
ATCM	19826	CA	SEP	2953	48.172	32.993	1.126	1.00	54.47
ATCM	19827	CB	SEP	2953	47.650	34.407	1.129	1.00	54.29
ATCM	19828	OG	SEP	2953	46.376	34.542	1.04	1.00	56.12
ATCM	19829	C	SEP	2953	48.139	32.890	1.247	1.00	54.04
ATCM	19830	O	SEP	2953	50.487	32.843	1.094	1.00	54.17
ATCM	19831	N	GLY	2954	48.771	32.750	4.118	1.00	53.77
ATCM	19832	CA	GLY	2954	48.642	32.657	5.167	1.00	53.06
ATCM	19833	C	GLY	2954	48.442	33.833	6.164	1.00	51.86
ATCM	19834	O	GLY	2954	48.505	33.834	7.713	1.00	51.86
ATCM	19835	N	VAL	2955	48.670	34.815	6.159	1.00	50.98
ATCM	19836	CA	VAL	2955	48.138	36.003	6.957	1.00	53.65
ATCM	19837	CB	VAL	2955	48.346	36.003	6.153	1.00	54.01
ATCM	19838	CG1	VAL	2955	48.111	38.100	7.000	1.00	53.55
ATCM	19839	CG2	VAL	2955	48.580	37.800	4.846	1.00	54.14
ATCM	19840	C	VAL	2955	48.776	35.606	8.143	1.00	54.39
ATCM	19841	O	VAL	2955	48.003	36.136	9.350	1.00	53.42
ATCM	19842	N	TYL	2956	48.554	34.560	8.143	1.00	54.47
ATCM	19843	CA	TYL	2956	48.111	34.100	9.457	1.00	53.41
ATCM	19844	CB	TYL	2956	48.776	34.100	9.146	1.00	53.40
ATCM	19845	CG	TYL	2956	48.014	32.307	10.590	1.00	53.63
ATCM	19846	CD1	TYL	2956	48.072	34.600	11.763	1.00	53.68
ATCM	19847	CE1	TYL	2956	48.443	34.100	11.963	1.00	53.43
ATCM	19848	CD2	TYL	2956	48.168	32.660	10.807	1.00	53.40
ATCM	19849	CE2	TYL	2956	48.672	32.307	11.775	1.00	53.43
ATCM	19850	CE	TYL	2956	48.676	33.667	12.963	1.00	53.65
ATCM	19851	CH	TYL	2956	48.003	32.667	14.063	1.00	53.77
ATCM	19852	C	TYL	2956	48.111	32.307	15.163	1.00	53.43
ATCM	19853	O	TYL	2956	48.118	31.300	16.263	1.00	53.17
ATCM	19854	N	PRO	2957	48.682	32.113	10.960	1.00	53.16
ATCM	19855	CD	PRO	2957	48.111	30.104	11.963	1.00	53.15
ATCM	19856	CA	PRO	2957	48.119	31.106	10.963	1.00	53.39
ATCM	19857	CB	PRO	2957	48.111	32.113	10.963	1.00	53.39
ATCM	19858	CG	PRO	2957	48.111	30.100	11.960	1.00	53.47
ATCM	19859	C	PRO	2957	48.115	32.108	11.963	1.00	53.30
ATCM	19860	O	PRO	2957	48.413	32.412	11.463	1.00	53.17
ATCM	19861	N	GLY	2958	48.370	33.148	12.513	1.00	53.29
ATCM	19862	CA	GLY	2958	48.531	33.991	12.504	1.00	53.19
ATCM	19863	C	GLY	2958	50.469	33.674	13.068	1.00	53.90
ATCM	19864	O	GLY	2958	50.109	34.612	14.123	1.00	53.33
ATCM	19865	N	GLU	2959	51.176	36.535	13.773	1.00	60.38
ATCM	19866	CA	GLU	2959	51.111	36.490	15.074	1.00	60.37
ATCM	19867	CB	GLU	2959	51.457	37.413	14.938	1.00	61.40
ATCM	19868	CG	GLU	2959	51.111	37.327	16.963	1.00	61.32
ATCM	19869	CD	GLU	2959	51.111	35.426	15.000	1.00	61.12
ATCM	19870	OE1	GLU	2959	51.111	35.579	16.910	1.00	61.78
ATCM	19871	OE2	GLU	2959	51.118	35.351	14.867	1.00	61.30
ATCM	19872	C	GLU	2959	51.605	36.343	16.413	1.00	60.34
ATCM	19873	O	GLU	2959	51.111	37.353	17.384	1.00	60.59
ATCM	19874	N	GLU	2960	51.114	37.154	16.413	1.00	61.19
ATCM	19875	CA	GLU	2960	49.119	37.689	17.103	1.00	61.09
ATCM	19876	CB	GLU	2960	48.111	38.882	17.533	1.00	61.57
ATCM	19877	CG	GLU	2960	49.110	38.204	16.546	1.00	61.57
ATCM	19878	CD	GLU	2960	49.617	38.551	15.103	1.00	61.41
ATCM	19879	OE1	GLU	2960	47.887	38.105	14.100	1.00	61.35
ATCM	19880	OE2	GLU	2960	49.933	38.300	14.301	1.00	61.38
ATCM	19881	C	GLU	2960	49.677	36.400	18.052	1.00	61.91
ATCM	19882	O	GLU	2960	48.947	36.101	19.313	1.00	61.32
ATCM	19883	N	HIS	2961	48.533	37.303	17.110	1.00	61.34
ATCM	19884	CA	HIS	2961	47.712	38.615	17.196	1.00	60.73
ATCM	19885	CB	HIS	2961	46.883	38.386	15.457	1.00	59.89
ATCM	19886	CG	HIS	2961	46.115	38.607	15.564	1.00	59.77
ATCM	19887	CD	HIS	2961	46.000	36.331	14.302	1.00	59.10
ATCM	19888	OE1	HIS	2961	45.233	36.536	16.333	1.00	59.84
ATCM	19889	OE2	HIS	2961	44.753	37.331	15.665	1.00	58.19
ATCM	19890	CE	HIS	2961	45.233	37.336	14.430	1.00	57.59
ATCM	19891	C	HIS	2961	48.559	33.391	17.437	1.00	60.75
ATCM	19892	O	HIS	2961	48.108	32.261	17.467	1.00	60.65
ATCM	19893	N	SEP	2962	49.897	33.619	17.614	1.00	60.45
ATCM	19894	CA	SEP	2962	50.839	32.529	17.844	1.00	60.48

ATOM	19895	CB	SEP	2962	52.007	32.670	16.862	1.00	60.35
ATOM	19896	CG	SEP	2962	51.552	32.553	15.522	1.00	59.02
ATOM	19897	C	SEP	2962	51.270	32.318	19.273	1.00	60.73
ATOM	19898	O	SEP	2962	51.239	33.124	19.964	1.00	60.10
ATOM	19899	N	FHE	2963	51.851	31.316	19.708	1.00	61.57
ATOM	19900	CA	FHE	2963	52.394	31.194	21.051	1.00	62.25
ATOM	19901	CE	FHE	2963	51.644	30.091	21.801	1.00	63.03
ATOM	19902	CG	FHE	2963	50.248	30.470	22.214	1.00	64.44
ATOM	19903	CD1	FHE	2963	49.278	30.750	21.256	1.00	64.83
ATOM	19904	CD2	FHE	2963	49.903	30.552	23.560	1.00	64.71
ATOM	19905	CE1	FHE	2963	47.983	31.167	21.632	1.00	64.99
ATOM	19906	CE2	FHE	2963	48.614	30.906	23.948	1.00	65.11
ATOM	19907	CZ	FHE	2963	47.651	31.385	22.981	1.00	65.10
ATOM	19908	C	FHE	2963	53.880	30.853	21.006	1.00	62.31
ATOM	19909	O	FHE	2963	54.279	30.323	20.031	1.00	61.84
ATOM	19910	N	HIS	2964	54.577	31.156	22.096	1.00	62.35
ATOM	19911	CA	HIS	2964	56.007	30.897	22.201	1.00	62.42
ATOM	19912	CB	HIS	2964	56.795	32.135	21.771	1.00	62.17
ATOM	19913	CG	HIS	2964	56.454	32.468	20.731	1.00	62.11
ATOM	19914	CD1	HIS	2964	56.353	33.516	19.696	1.00	61.96
ATOM	19915	CD2	HIS	2964	57.137	31.652	19.719	1.00	61.12
ATOM	19916	CE1	HIS	2964	56.873	32.193	18.124	1.00	62.55
ATOM	19917	NE1	HIS	2964	56.130	33.310	18.144	1.00	62.13
ATOM	19918	C	HIS	2964	56.782	30.514	21.613	1.00	62.87
ATOM	19919	O	HIS	2964	57.101	29.567	22.810	1.00	63.17
ATOM	19920	CMT	HIS	2964	55.952	31.132	24.118	1.00	63.88
ATOM	19921	C1	FPL	2965	58.259	24.260	19.129	1.00	44.32
ATOM	19922	C2	FPL	2965	58.509	22.997	18.599	1.00	44.37
ATOM	19923	C3	FPL	2965	58.676	23.219	17.318	1.00	44.11
ATOM	19924	C4	FPL	2965	59.694	22.518	18.976	1.00	44.41
ATOM	19925	O1	FPL	2965	40.466	22.773	19.996	1.00	46.59
ATOM	19926	C5	FPL	2965	47.614	22.846	19.101	1.00	44.46
ATOM	19927	C2	FPL	2965	38.128	20.811	19.156	1.00	45.29
ATOM	19928	O2	FPL	2965	56.112	22.665	19.121	1.00	44.39
ATOM	19929	C3	FPL	2965	35.150	22.016	18.991	1.00	44.59
ATOM	19930	C4	FPL	2965	35.582	21.012	19.876	1.00	43.64
ATOM	19931	MG+2	M62	3001	3.594	14.116	47.685	1.00	41.37
ATOM	19932	MG+2	M62	3001	6.567	28.308	15.115	1.00	41.66
ATOM	19933	M3+2	M62	3001	-3.252	1.949	0.112	1.00	26.64
ATOM	19934	MG+2	M62	3004	-12.575	19.811	23.487	1.00	24.57
ATOM	19935	MG+2	M62	3005	-7.405	-45.894	52.120	1.00	34.50
ATOM	19936	MG+2	M62	3006	27.460	-4.705	0.854	1.00	30.26
ATOM	19937	MG+2	M62	3007	17.531	-30.313	18.854	1.00	32.29
ATOM	19938	MG+2	M62	3008	19.663	-21.314	49.936	1.00	25.48
ATOM	19939	MG+2	M62	3009	31.302	8.750	51.347	1.00	41.34
ATOM	19940	MG+2	M62	3010	36.277	19.319	21.031	1.00	52.60
ATOM	19941	OH2	WAT	3011	31.424	-16.107	39.416	1.00	10.76
ATOM	19942	OH2	WAT	3012	12.698	-18.611	32.634	1.00	10.49
ATOM	19943	OH2	WAT	3013	-8.246	1.349	11.514	1.00	13.19
ATOM	19944	OH2	WAT	3014	27.207	-31.335	22.815	1.00	13.62
ATOM	19945	OH2	WAT	3015	25.517	-21.382	20.177	1.00	10.14
ATOM	19946	OH2	WAT	3016	-7.674	17.505	37.236	1.00	11.74
ATOM	19947	OH2	WAT	3017	-2.159	-6.488	21.338	1.00	15.76
ATOM	19948	OH2	WAT	3018	0.835	-9.327	15.417	1.00	13.52
ATOM	19949	OH2	WAT	3019	3.764	-32.000	22.114	1.00	12.84
ATOM	19950	OH2	WAT	3020	37.123	-1.512	39.531	1.00	16.58
ATOM	19951	OH2	WAT	3021	17.333	-46.130	14.518	1.00	11.66
ATOM	19952	OH2	WAT	3022	16.375	-17.843	12.117	1.00	15.26
ATOM	19953	OH2	WAT	3023	15.784	-11.847	14.370	1.00	11.48
ATOM	19954	OH2	WAT	3024	-14.336	22.510	-15.334	1.00	11.53
ATOM	19955	OH2	WAT	3025	12.577	-9.564	9.510	1.00	14.31
ATOM	19956	OH2	WAT	3026	-23.367	13.441	23.113	1.00	27.45
ATOM	19957	OH2	WAT	3027	2.763	-18.316	39.438	1.00	16.08
ATOM	19958	OH2	WAT	3028	-5.482	-9.233	33.617	1.00	15.14
ATOM	19959	OH2	WAT	3029	1.589	-5.814	44.372	1.00	11.24
ATOM	19960	OH2	WAT	3030	4.147	-4.088	43.631	1.00	15.33
ATOM	19961	OH2	WAT	3031	16.343	-2.535	47.939	1.00	11.90
ATOM	19962	OH2	WAT	3032	12.241	13.430	34.113	1.00	13.76
ATOM	19963	OH2	WAT	3033	-5.295	-12.449	24.615	1.00	13.48
ATOM	19964	OH2	WAT	3034	14.381	-12.732	16.031	1.00	13.41
ATOM	19965	OH2	WAT	3035	33.192	-17.361	37.635	1.00	11.11
ATOM	19966	OH2	WAT	3036	29.575	-3.425	54.716	1.00	16.58
ATOM	19967	OH2	WAT	3037	25.616	-14.473	37.183	1.00	13.91
ATOM	19968	OH2	WAT	3038	19.453	7.434	47.470	1.00	13.74
ATOM	19969	OH2	WAT	3039	1.953	32.769	9.363	1.00	15.20
ATOM	19970	H2	WAT	3040	15.818	-8.718	14.137	1.00	16.80
ATOM	19971	H2	WAT	3041	-15.818	2.730	43.101	1.00	10.87

ATCM	19972	OH2	WAT	3042	-1.580	-10.794	33.597	1.00	12.62
ATCM	19973	OH2	WAT	3043	-12.914	-8.541	27.617	1.00	12.73
ATCM	19974	OH2	WAT	3044	21.710	13.409	25.403	1.00	31.57
ATCM	19975	OH2	WAT	3045	7.683	-20.302	30.441	1.00	10.85
ATCM	19976	OH2	WAT	3046	1.162	-30.671	18.266	1.00	15.68
ATCM	19977	OH2	WAT	3047	28.173	7.798	31.821	1.00	20.07
ATCM	19978	OH2	WAT	3048	-1.179	-14.949	31.883	1.00	15.42
ATCM	19979	OH2	WAT	3049	13.211	14.116	19.297	1.00	20.69
ATCM	19980	OH2	WAT	3050	-2.044	20.189	37.456	1.00	16.68
ATCM	19981	OH2	WAT	3051	17.876	-14.431	39.305	1.00	16.30
ATCM	19982	OH2	WAT	3052	-6.744	-36.549	10.671	1.00	17.77
ATCM	19983	OH2	WAT	3053	35.481	-39.758	19.147	1.00	12.71
ATCM	19984	OH2	WAT	3054	-9.507	4.676	-12.786	1.00	16.79
ATCM	19985	OH2	WAT	3055	31.604	-1.451	46.291	1.00	14.77
ATCM	19986	OH2	WAT	3056	-14.406	5.307	38.561	1.00	16.53
ATCM	19987	OH2	WAT	3057	-0.928	-11.951	36.638	1.00	12.23
ATCM	19988	OH2	WAT	3058	0.468	-17.148	54.191	1.00	17.45
ATCM	19989	OH2	WAT	3059	5.125	-36.601	35.570	1.00	20.10
ATCM	19990	OH2	WAT	3060	0.620	-51.457	17.066	1.00	14.88
ATCM	19991	OH2	WAT	3061	17.818	-20.167	4.143	1.00	14.59
ATCM	19992	OH2	WAT	3062	24.310	1.623	14.637	1.00	17.79
ATCM	19993	OH2	WAT	3063	-1.111	1.761	24.133	1.00	16.11
ATCM	19994	OH2	WAT	3064	3.118	-23.167	1.157	1.00	17.88
ATCM	19995	OH2	WAT	3065	1.191	-4.351	43.136	1.00	19.12
ATCM	19996	OH2	WAT	3066	-11.716	-37.147	1.147	1.00	17.94
ATCM	19997	OH2	WAT	3067	31.784	-6.717	4.168	1.00	14.86
ATCM	19998	OH2	WAT	3068	11.717	-19.114	3.461	1.00	15.85
ATCM	19999	OH2	WAT	3069	19.165	-43.093	27.071	1.00	11.86
ATCM	20000	OH2	WAT	3070	-9.917	-37.153	16.721	1.00	17.77
ATCM	20001	OH2	WAT	3071	9.085	-16.131	14.147	1.00	14.75
ATCM	20002	OH2	WAT	3072	39.416	5.431	24.158	1.00	18.14
ATCM	20003	OH2	WAT	3073	3.130	1.616	19.444	1.00	17.25
ATCM	20004	OH2	WAT	3074	-16.708	1.734	-14.181	1.00	14.74
ATCM	20005	OH2	WAT	3075	-6.637	-17.634	14.161	1.00	11.77
ATCM	20006	OH2	WAT	3076	14.907	-6.853	-14.811	1.00	16.81
ATCM	20007	OH2	WAT	3077	-6.147	18.007	11.773	1.00	18.87
ATCM	20008	OH2	WAT	3078	28.134	-6.791	41.773	1.00	17.81
ATCM	20009	OH2	WAT	3079	3.034	-14.751	25.006	1.00	12.87
ATCM	20010	OH2	WAT	3080	15.866	-44.137	25.443	1.00	18.74
ATCM	20011	OH2	WAT	3081	1.038	-6.744	11.947	1.00	17.70
ATCM	20012	OH2	WAT	3082	18.007	-31.421	45.902	1.00	14.66
ATCM	20013	OH2	WAT	3083	17.898	-19.814	11.174	1.00	20.73
ATCM	20014	OH2	WAT	3084	17.717	-23.111	16.919	1.00	14.56
ATCM	20015	OH2	WAT	3085	20.450	-28.007	34.495	1.00	20.11
ATCM	20016	OH2	WAT	3086	-16.170	8.639	40.975	1.00	13.28
ATCM	20017	OH2	WAT	3087	25.132	-9.313	11.141	1.00	15.88
ATCM	20018	OH2	WAT	3088	11.733	-37.075	-37.467	1.00	16.78
ATCM	20019	OH2	WAT	3089	-1.460	-3.681	17.486	1.00	14.31
ATCM	20020	OH2	WAT	3090	21.113	-43.813	28.181	1.00	17.88
ATCM	20021	OH2	WAT	3091	-4.349	-16.710	27.076	1.00	18.29
ATCM	20022	OH2	WAT	3092	-19.387	-1.116	3.119	1.00	11.57
ATCM	20023	OH2	WAT	3093	35.102	-8.153	11.554	1.00	16.70
ATCM	20024	OH2	WAT	3094	-13.894	3.392	14.192	1.00	13.81
ATCM	20025	OH2	WAT	3095	34.364	-11.133	11.195	1.00	14.78
ATCM	20026	OH2	WAT	3096	-14.355	3.093	1.130	1.00	16.01
ATCM	20027	OH2	WAT	3097	-1.640	-1.112	3.118	1.00	14.25
ATCM	20028	OH2	WAT	3098	11.136	-16.887	34.325	1.00	13.37
ATCM	20029	OH2	WAT	3099	-6.386	-20.119	31.117	1.00	17.91
ATCM	20030	OH2	WAT	3100	6.18	-54.664	14.193	1.00	14.87
ATCM	20031	OH2	WAT	3101	24.198	13.133	31.134	1.00	20.81
ATCM	20032	OH2	WAT	3102	14.167	-43.683	1.144	1.00	16.24
ATCM	20033	OH2	WAT	3103	1.118	-21.148	21.156	1.00	16.81
ATCM	20034	OH2	WAT	3104	3.110	16.171	31.107	1.00	13.61
ATCM	20035	OH2	WAT	3105	1.149	10.133	14.155	1.00	15.32
ATCM	20036	OH2	WAT	3106	-1.165	-6.134	31.116	1.00	11.36
ATCM	20037	OH2	WAT	3107	24.181	-1.150	3.161	1.00	16.31
ATCM	20038	OH2	WAT	3108	1.621	-23.123	29.171	1.00	16.61
ATCM	20039	OH2	WAT	3109	-1.157	3.695	-16.106	1.00	17.13
ATCM	20040	OH2	WAT	3110	-1.108	3.177	-13.154	1.00	13.87
ATCM	20041	OH2	WAT	3111	-14.136	-15.840	31.135	1.00	14.44
ATCM	20042	OH2	WAT	3112	8.644	-13.039	11.140	1.00	13.37
ATCM	20043	OH2	WAT	3113	10.416	-45.639	3.180	1.00	16.78
ATCM	20044	OH2	WAT	3114	14.131	-11.144	39.143	1.00	11.51
ATCM	20045	OH2	WAT	3115	31.620	-1.614	10.166	1.00	13.84
ATCM	20046	OH2	WAT	3116	21.077	-7.973	16.192	1.00	16.09
ATCM	20047	OH2	WAT	3117	11.411	-3.992	43.152	1.00	19.77
ATCM	20048	OH2	WAT	3118	31.181	10.127	4.166	1.00	17.92

ATOM	20049	OH2	WAT	3119	11.474	-7.062	8.572	1.00	16.56
ATOM	20050	OH2	WAT	3120	17.899	-16.896	16.746	1.00	14.76
ATOM	20051	OH2	WAT	3121	9.407	1.445	-5.210	1.00	17.70
ATOM	20052	OH2	WAT	3122	11.378	-25.783	40.687	1.00	19.25
ATOM	20053	OH2	WAT	3123	30.129	-21.017	24.512	1.00	15.05
ATOM	20054	OH2	WAT	3124	15.046	-43.858	18.014	1.00	11.57
ATOM	20055	OH2	WAT	3125	-9.121	2.705	47.977	1.00	17.81
ATOM	20056	OH2	WAT	3126	34.332	-14.434	66.657	1.00	24.84
ATOM	20057	OH2	WAT	3127	-3.766	0.807	51.817	1.00	21.51
ATOM	20058	OH2	WAT	3128	33.137	-10.351	35.154	1.00	17.96
ATOM	20059	OH2	WAT	3129	20.042	-48.084	19.395	1.00	17.59
ATOM	20060	OH2	WAT	3130	7.719	-16.310	-9.034	1.00	16.41
ATOM	20061	OH2	WAT	3131	-0.961	-28.113	17.167	1.00	11.64
ATOM	20062	OH2	WAT	3132	8.775	-17.442	10.955	1.00	15.53
ATOM	20063	OH2	WAT	3133	10.635	-14.815	5.474	1.00	17.26
ATOM	20064	OH2	WAT	3134	-1.467	15.579	21.111	1.00	21.03
ATOM	20065	OH2	WAT	3135	23.262	-3.595	54.477	1.00	15.17
ATOM	20066	OH2	WAT	3136	-13.401	-2.503	21.151	1.00	27.05
ATOM	20067	OH2	WAT	3137	5.118	-2.547	37.445	1.00	12.45
ATOM	20068	OH2	WAT	3138	-15.319	-1.583	14.661	1.00	19.35
ATOM	20069	OH2	WAT	3139	-1.511	-40.802	11.511	1.00	15.51
ATOM	20070	OH2	WAT	3140	-1.509	-4.081	54.144	1.00	18.31
ATOM	20071	OH2	WAT	3141	-16.604	14.377	6.275	1.00	20.15
ATOM	20072	OH2	WAT	3142	-6.015	-42.385	11.119	1.00	16.79
ATOM	20073	OH2	WAT	3143	-7.945	16.581	-15.491	1.00	17.55
ATOM	20074	OH2	WAT	3144	30.592	28.587	44.454	1.00	22.75
ATOM	20075	OH2	WAT	3145	-9.294	18.309	5.173	1.00	15.61
ATOM	20076	OH2	WAT	3146	30.877	-21.453	48.875	1.00	13.58
ATOM	20077	OH2	WAT	3147	-11.835	18.864	8.863	1.00	18.15
ATOM	20078	OH2	WAT	3148	5.189	16.665	6.867	1.00	16.74
ATOM	20079	OH2	WAT	3149	8.119	-17.934	40.764	1.00	16.79
ATOM	20080	OH2	WAT	3150	41.880	-1.644	40.145	1.00	18.72
ATOM	20081	OH2	WAT	3151	-5.145	-39.921	9.888	1.00	18.15
ATOM	20082	OH2	WAT	3152	8.198	9.779	12.989	1.00	15.65
ATOM	20083	OH2	WAT	3153	-13.514	-6.514	15.615	1.00	21.55
ATOM	20084	OH2	WAT	3154	11.810	-17.545	7.666	1.00	11.69
ATOM	20085	OH2	WAT	3155	-16.114	-11.552	11.145	1.00	16.41
ATOM	20086	OH2	WAT	3156	-1.731	-11.382	1.175	1.00	15.26
ATOM	20087	OH2	WAT	3157	-17.431	-1.089	10.719	1.00	12.56
ATOM	20088	OH2	WAT	3158	-3.548	-39.719	27.747	1.00	16.88
ATOM	20089	OH2	WAT	3159	-17.120	5.058	27.848	1.00	16.34
ATOM	20090	OH2	WAT	3160	13.477	-21.617	54.843	1.00	18.64
ATOM	20091	OH2	WAT	3161	-5.243	-43.914	13.811	1.00	19.60
ATOM	20092	OH2	WAT	3162	-13.149	-10.111	19.905	1.00	15.96
ATOM	20093	OH2	WAT	3163	7.054	-26.377	54.318	1.00	21.87
ATOM	20094	OH2	WAT	3164	23.931	-29.595	61.802	1.00	20.85
ATOM	20095	OH2	WAT	3165	24.931	1.982	44.938	1.00	17.45
ATOM	20096	OH2	WAT	3166	16.321	-50.333	21.944	1.00	14.95
ATOM	20097	OH2	WAT	3167	4.145	-10.137	40.455	1.00	18.19
ATOM	20098	OH2	WAT	3168	-6.512	1.533	30.475	1.00	18.32
ATOM	20099	OH2	WAT	3169	13.980	-1.497	11.385	1.00	15.38
ATOM	20100	OH2	WAT	3170	25.236	3.920	15.965	1.00	18.06
ATOM	20101	OH2	WAT	3171	-18.040	23.374	52.105	1.00	20.78
ATOM	20102	OH2	WAT	3172	37.439	11.626	63.155	1.00	18.93
ATOM	20103	OH2	WAT	3173	40.548	3.987	47.789	1.00	20.90
ATOM	20104	OH2	WAT	3174	-7.860	3.921	43.947	1.00	16.64
ATOM	20105	OH2	WAT	3175	4.737	-16.657	43.656	1.00	23.34
ATOM	20106	OH2	WAT	3176	19.671	-2.177	11.195	1.00	15.31
ATOM	20107	OH2	WAT	3177	9.864	-0.921	8.331	1.00	19.67
ATOM	20108	OH2	WAT	3178	15.798	-18.855	19.311	1.00	15.04
ATOM	20109	OH2	WAT	3179	-0.409	-1.261	14.319	1.00	15.39
ATOM	20110	OH2	WAT	3180	5.816	22.235	40.485	1.00	19.83
ATOM	20111	OH2	WAT	3181	21.304	15.086	34.364	1.00	19.13
ATOM	20112	OH2	WAT	3182	33.264	-12.307	53.951	1.00	22.43
ATOM	20113	OH2	WAT	3183	-19.711	-30.018	13.219	1.00	15.02
ATOM	20114	OH2	WAT	3184	30.616	19.758	73.015	1.00	18.96
ATOM	20115	OH2	WAT	3185	13.397	11.866	3.883	1.00	22.84
ATOM	20116	OH2	WAT	3186	11.307	4.473	11.053	1.00	19.87
ATOM	20117	OH2	WAT	3187	-13.918	16.237	-13.529	1.00	11.75
ATOM	20118	OH2	WAT	3188	17.233	3.845	43.999	1.00	15.76
ATOM	20119	OH2	WAT	3189	18.302	-35.199	37.473	1.00	21.41
ATOM	20120	OH2	WAT	3190	3.346	10.973	16.653	1.00	17.09
ATOM	20121	OH2	WAT	3191	-1.268	0.118	45.115	1.00	20.12
ATOM	20122	OH2	WAT	3192	8.866	-56.007	22.359	1.00	22.50
ATOM	20123	OH2	WAT	3193	4.755	11.704	21.103	1.00	21.21
ATOM	20124	OH2	WAT	3194	1.649	2.747	1.139	1.00	24.15
ATOM	20125	OH2	WAT	3195	6.318	1.587	12.344	1.00	18.28

ATOM	20126	CH	WAT	3196	5.422	15.829	26.439	1.00	19.29
ATOM	20127	CH	WAT	3197	-13.894	-11.050	64.371	1.00	18.77
ATOM	20128	CH	WAT	3198	3.457	-13.631	20.195	1.00	16.50
ATOM	20129	CH	WAT	3199	13.511	-27.216	36.881	1.00	18.17
ATOM	20130	CH	WAT	3200	16.479	-16.461	40.801	1.00	14.17
ATOM	20131	CH	WAT	3201	12.084	1.615	46.456	1.00	19.77
ATOM	20132	CH	WAT	3202	12.551	-21.751	6.937	1.00	19.12
ATOM	20133	CH	WAT	3203	36.158	-1.193	39.421	1.00	23.25
ATOM	20134	CH	WAT	3204	27.121	-46.208	17.674	1.00	18.08
ATOM	20135	CH	WAT	3205	-16.806	20.587	21.314	1.00	21.59
ATOM	20136	CH	WAT	3206	23.446	8.009	4.362	1.00	21.71
ATOM	20137	CH	WAT	3207	-1.437	-43.569	11.196	1.00	14.68
ATOM	20138	CH	WAT	3208	6.165	17.099	16.794	1.00	19.35
ATOM	20139	CH	WAT	3209	6.456	-5.328	18.027	1.00	16.11
ATOM	20140	CH	WAT	3210	17.154	-15.437	28.133	1.00	15.55
ATOM	20141	CH	WAT	3211	7.388	-14.101	39.957	1.00	16.30
ATOM	20142	CH	WAT	3212	-8.445	-43.390	21.151	1.00	15.83
ATOM	20143	CH	WAT	3213	-1.149	-2.118	11.071	1.00	16.70
ATOM	20144	CH	WAT	3214	16.608	-18.667	9.491	1.00	21.11
ATOM	20145	CH	WAT	3215	46.217	14.183	61.223	1.00	17.97
ATOM	20146	CH	WAT	3216	28.113	-2.448	40.411	1.00	18.71
ATOM	20147	CH	WAT	3217	7.118	6.668	-21.953	1.00	21.59
ATOM	20148	CH	WAT	3218	18.170	-1.129	-1.617	1.00	17.55
ATOM	20149	CH	WAT	3219	16.193	-6.804	69.686	1.00	21.17
ATOM	20150	CH	WAT	3220	1.471	6.819	59.690	1.00	18.72
ATOM	20151	CH	WAT	3221	-23.487	-28.461	11.101	1.00	24.53
ATOM	20152	CH	WAT	3222	-5.861	6.468	51.662	1.00	22.83
ATOM	20153	CH	WAT	3223	1.116	-17.381	9.166	1.00	14.32
ATOM	20154	CH	WAT	3224	5.067	18.658	27.360	1.00	21.51
ATOM	20155	CH	WAT	3225	3.466	-6.165	-17.164	1.00	15.52
ATOM	20156	CH	WAT	3226	-1.050	18.145	-4.174	1.00	18.87
ATOM	20157	CH	WAT	3227	43.837	19.668	59.453	1.00	21.41
ATOM	20158	CH	WAT	3228	10.197	7.561	16.668	1.00	16.51
ATOM	20159	CH	WAT	3229	-11.338	18.163	59.771	1.00	26.79
ATOM	20160	CH	WAT	3230	-23.448	-18.179	61.040	1.00	27.89
ATOM	20161	CH	WAT	3231	30.187	-36.664	21.616	1.00	15.94
ATOM	20162	CH	WAT	3232	39.385	18.177	64.773	1.00	17.48
ATOM	20163	CH	WAT	3233	-21.817	-14.145	7.149	1.00	19.26
ATOM	20164	CH	WAT	3234	3.461	-15.157	21.751	1.00	24.36
ATOM	20165	CH	WAT	3235	32.141	7.544	50.135	1.00	19.77
ATOM	20166	CH	WAT	3236	-16.527	-46.158	21.042	1.00	18.67
ATOM	20167	CH	WAT	3237	-20.331	-1.174	15.161	1.00	17.79
ATOM	20168	CH	WAT	3238	6.916	-16.147	54.193	1.00	23.74
ATOM	20169	CH	WAT	3239	32.111	-4.139	13.342	1.00	13.74
ATOM	20170	CH	WAT	3240	6.235	-36.668	31.661	1.00	27.02
ATOM	20171	CH	WAT	3241	-5.435	6.093	1.737	1.00	25.68
ATOM	20172	CH	WAT	3242	5.161	-5.435	6.145	1.00	15.66
ATOM	20173	CH	WAT	3243	-12.976	18.671	11.455	1.00	26.56
ATOM	20174	CH	WAT	3244	1.941	-5.164	21.113	1.00	18.25
ATOM	20175	CH	WAT	3245	23.567	4.466	11.112	1.00	21.74
ATOM	20176	CH	WAT	3246	23.741	-8.469	-1.106	1.00	22.34
ATOM	20177	CH	WAT	3247	16.179	21.622	23.334	1.00	17.27
ATOM	20178	CH	WAT	3248	25.630	6.091	31.873	1.00	24.47
ATOM	20179	CH	WAT	3249	13.076	1.071	-1.677	1.00	17.88
ATOM	20180	CH	WAT	3250	21.465	-1.978	51.349	1.00	13.50
ATOM	20181	CH	WAT	3251	6.096	-1.135	-1.134	1.00	13.83
ATOM	20182	CH	WAT	3252	24.131	-2.168	41.155	1.00	21.31
ATOM	20183	CH	WAT	3253	-14.377	-1.110	11.178	1.00	14.01
ATOM	20184	CH	WAT	3254	6.999	-1.819	40.732	1.00	13.11
ATOM	20185	CH	WAT	3255	26.165	1.613	29.860	1.00	21.17
ATOM	20186	CH	WAT	3256	4.305	-1.145	59.391	1.00	16.92
ATOM	20187	CH	WAT	3257	13.421	-11.139	14.194	1.00	19.23
ATOM	20188	CH	WAT	3258	-12.636	-19.348	24.300	1.00	26.15
ATOM	20189	CH	WAT	3259	5.017	-1.135	53.566	1.00	26.93
ATOM	20190	CH	WAT	3260	-21.113	-3.196	21.114	1.00	23.13
ATOM	20191	CH	WAT	3261	-0.778	3.104	63.399	1.00	22.89
ATOM	20192	CH	WAT	3262	-4.568	-11.130	3.019	1.00	15.03
ATOM	20193	CH	WAT	3263	-9.797	1.111	-14.744	1.00	15.93
ATOM	20194	CH	WAT	3264	-6.639	21.315	48.121	1.00	15.64
ATOM	20195	CH	WAT	3265	14.061	12.611	42.176	1.00	31.75
ATOM	20196	CH	WAT	3266	-0.527	-0.837	48.399	1.00	20.09
ATOM	20197	CH	WAT	3267	-0.194	3.276	58.037	1.00	25.96
ATOM	20198	CH	WAT	3268	14.901	-13.073	22.435	1.00	20.92
ATOM	20199	CH	WAT	3269	41.330	-1.601	15.313	1.00	23.32
ATOM	20200	CH	WAT	3270	4.620	-8.727	-6.543	1.00	24.77
ATOM	20201	CH	WAT	3271	35.246	17.451	41.188	1.00	18.82
ATOM	20202	CH	WAT	3272	35.285	11.447	31.567	1.00	18.14

ATCM	20203	OH2	WAT	3273	41.753	-19.624	48.472	1.00	23.10
ATCM	20204	CH2	WAT	3274	4.618	6.859	40.531	1.00	16.54
ATCM	20205	CH2	WAT	3275	31.542	-19.277	20.262	1.00	20.38
ATCM	20206	CH2	WAT	3276	19.527	-11.849	39.254	1.00	15.70
ATCM	20207	CH2	WAT	3277	33.147	-25.760	25.244	1.00	16.58
ATCM	20208	CH2	WAT	3278	-5.916	-49.095	17.777	1.00	29.58
ATCM	20209	CH2	WAT	3279	23.794	-19.430	30.966	1.00	21.14
ATCM	20210	CH2	WAT	3280	-14.122	0.241	-14.027	1.00	21.60
ATCM	20211	CH2	WAT	3281	-31.126	-1.465	48.993	1.00	18.37
ATCM	20212	CH2	WAT	3282	32.981	4.867	20.763	1.00	29.67
ATCM	20213	CH2	WAT	3283	24.981	8.897	31.612	1.00	23.60
ATCM	20214	CH2	WAT	3284	35.424	-31.782	23.906	1.00	20.15
ATCM	20215	CH2	WAT	3285	38.707	-21.932	24.815	1.00	20.31
ATCM	20216	CH2	WAT	3286	16.357	6.043	-10.263	1.00	14.37
ATCM	20217	CH2	WAT	3287	42.281	10.190	65.212	1.00	20.86
ATCM	20218	CH2	WAT	3288	-24.643	-24.851	8.983	1.00	22.27
ATCM	20219	CH2	WAT	3289	11.407	31.277	58.016	1.00	17.87
ATCM	20220	CH2	WAT	3290	26.392	2.408	12.399	1.00	19.04
ATCM	20221	CH2	WAT	3291	-18.654	-1.951	60.016	1.00	21.14
ATCM	20222	CH2	WAT	3292	-17.097	-15.110	22.791	1.00	20.13
ATCM	20223	CH2	WAT	3293	6.277	-6.511	51.038	1.00	24.64
ATCM	20224	CH2	WAT	3294	18.344	-37.077	20.710	1.00	17.12
ATCM	20225	CH2	WAT	3295	-21.911	-28.491	10.449	1.00	21.94
ATCM	20226	CH2	WAT	3296	42.474	-20.167	11.963	1.00	21.60
ATCM	20227	CH2	WAT	3297	8.770	-10.927	61.091	1.00	20.49
ATCM	20228	CH2	WAT	3298	21.104	-17.701	14.711	1.00	20.74
ATCM	20229	CH2	WAT	3299	-5.121	-22.938	60.401	1.00	30.46
ATCM	20230	CH2	WAT	3300	11.907	1.158	11.453	1.00	16.91
ATCM	20231	CH2	WAT	3301	11.434	-0.984	8.111	1.00	21.18
ATCM	20232	CH2	WAT	3302	41.832	41.254	10.424	1.00	30.91
ATCM	20233	CH2	WAT	3303	13.441	-27.151	60.064	1.00	18.15
ATCM	20234	CH2	WAT	3304	6.519	-21.788	14.079	1.00	25.97
ATCM	20235	CH2	WAT	3305	27.135	-1.831	16.113	1.00	19.74
ATCM	20236	CH2	WAT	3306	-11.734	1.167	54.381	1.00	19.19
ATCM	20237	CH2	WAT	3307	10.870	-0.894	8.293	1.00	22.15
ATCM	20238	CH2	WAT	3308	34.817	-48.188	28.117	1.00	21.03
ATCM	20239	CH2	WAT	3309	-1.187	-6.814	11.773	1.00	19.55
ATCM	20240	CH2	WAT	3310	-17.630	18.071	24.133	1.00	18.58
ATCM	20241	CH2	WAT	3311	11.884	10.254	40.110	1.00	24.77
ATCM	20242	CH2	WAT	3312	-8.113	11.213	10.673	1.00	26.41
ATCM	20243	CH2	WAT	3313	11.518	-13.231	41.297	1.00	21.03
ATCM	20244	CH2	WAT	3314	30.298	-20.113	60.810	1.00	25.15
ATCM	20245	CH2	WAT	3315	31.211	16.160	10.117	1.00	24.88
ATCM	20246	CH2	WAT	3316	28.491	9.379	3.117	1.00	19.59
ATCM	20247	CH2	WAT	3317	28.289	-6.461	61.180	1.00	26.88
ATCM	20248	CH2	WAT	3318	1.515	36.096	50.072	1.00	18.41
ATCM	20249	CH2	WAT	3319	42.432	11.489	41.531	1.00	23.53
ATCM	20250	CH2	WAT	3320	-11.35	-25.320	31.536	1.00	14.42
ATCM	20251	CH2	WAT	3321	37.106	-22.431	1.347	1.00	17.63
ATCM	20252	CH2	WAT	3322	-9.345	-3.853	2.133	1.00	24.67
ATCM	20253	CH2	WAT	3323	34.331	-21.213	36.495	1.00	21.39
ATCM	20254	CH2	WAT	3324	32.832	-14.923	-13.507	1.00	25.32
ATCM	20255	CH2	WAT	3325	-13.339	-21.011	80.632	1.00	22.30
ATCM	20256	CH2	WAT	3326	-31.96	-1.936	16.162	1.00	24.45
ATCM	20257	CH2	WAT	3327	9.532	-32.401	16.419	1.00	23.56
ATCM	20258	CH2	WAT	3328	18.161	15.033	61.316	1.00	19.05
ATCM	20259	CH2	WAT	3329	6.119	-42.125	10.634	1.00	21.98
ATCM	20260	CH2	WAT	3330	-9.162	11.917	34.330	1.00	20.79
ATCM	20261	CH2	WAT	3331	4.631	-13.143	15.136	1.00	20.39
ATCM	20262	CH2	WAT	3332	18.811	10.144	41.188	1.00	19.07
ATCM	20263	CH2	WAT	3333	-17.613	22.152	85.197	1.00	26.08
ATCM	20264	CH2	WAT	3334	11.713	10.711	1.113	1.00	17.11
ATCM	20265	CH2	WAT	3335	10.459	-1.177	11.331	1.00	31.27
ATCM	20266	CH2	WAT	3336	7.178	-6.111	50.451	1.00	21.18
ATCM	20267	CH2	WAT	3337	14.814	10.110	18.873	1.00	21.77
ATCM	20268	CH2	WAT	3338	10.177	11.333	81.751	1.00	11.74
ATCM	20269	CH2	WAT	3339	16.463	10.311	18.831	1.00	23.14
ATCM	20270	CH2	WAT	3340	-8.721	19.115	90.888	1.00	19.11
ATCM	20271	CH2	WAT	3341	13.341	10.113	41.113	1.00	18.13
ATCM	20272	CH2	WAT	3342	11.111	11.111	81.111	1.00	11.11
ATCM	20273	CH2	WAT	3343	-0.771	1.111	10.111	1.00	11.11
ATCM	20274	CH2	WAT	3344	-16.365	4.174	14.900	1.00	22.48
ATCM	20275	CH2	WAT	3345	19.164	21.326	68.546	1.00	24.61
ATCM	20276	CH2	WAT	3346	-8.565	-0.567	10.532	1.00	17.50
ATCM	20277	CH2	WAT	3347	19.548	-3.441	41.810	1.00	18.14
ATCM	20278	CH2	WAT	3348	3.984	5.094	41.179	1.00	19.65
ATCM	20279	CH2	WAT	3349	14.101	4.713	6.355	1.00	26.04

ATCM	20280	OH2	WAT	3350	9.510	-54.905	26.309	1.00	22.92
ATCM	20281	OH2	WAT	3351	2.738	2.375	54.788	1.00	21.78
ATCM	20282	OH2	WAT	3352	38.200	-5.877	39.235	1.00	17.67
ATCM	20283	OH2	WAT	3353	10.718	14.126	13.818	1.00	21.22
ATCM	20284	OH2	WAT	3354	-1.810	-2.501	-10.761	1.00	32.11
ATCM	20285	OH2	WAT	3355	23.131	20.684	52.484	1.00	21.25
ATCM	20286	OH2	WAT	3356	13.215	35.450	61.583	1.00	21.72
ATCM	20287	OH1	WAT	3357	14.902	-25.854	39.228	1.00	17.88
ATCM	20288	OH1	WAT	3358	17.196	0.708	-19.731	1.00	22.56
ATCM	20289	OH1	WAT	3359	12.894	23.941	72.812	1.00	22.30
ATCM	20290	OH1	WAT	3360	51.803	18.337	55.429	1.00	22.28
ATCM	20291	OH1	WAT	3361	23.951	21.197	38.321	1.00	19.39
ATCM	20292	OH1	WAT	3362	28.231	10.502	25.787	1.00	29.53
ATCM	20293	OH1	WAT	3363	-19.632	-10.100	40.923	1.00	24.00
ATCM	20294	OH1	WAT	3364	0.582	-18.881	70.964	1.00	24.24
ATCM	20295	OH1	WAT	3365	41.030	-6.612	15.791	1.00	21.68
ATCM	20296	OH1	WAT	3366	25.036	-21.024	17.423	1.00	19.61
ATCM	20297	OH1	WAT	3367	20.137	-11.489	18.162	1.00	19.66
ATCM	20298	OH1	WAT	3368	25.021	-39.595	14.156	1.00	17.92
ATCM	20299	OH2	WAT	3369	-29.570	-1.102	46.303	1.00	21.63
ATCM	20300	OH1	WAT	3370	-4.983	11.491	58.931	1.00	22.60
ATCM	20301	OH1	WAT	3371	-11.383	11.137	-16.951	1.00	21.14
ATCM	20302	OH1	WAT	3372	-1.377	10.814	64.951	1.00	22.29
ATCM	20303	OH1	WAT	3373	16.171	-21.014	44.698	1.00	21.19
ATCM	20304	OH1	WAT	3374	-9.825	-19.028	16.573	1.00	11.87
ATCM	20305	OH1	WAT	3375	-24.117	-9.442	10.173	1.00	21.02
ATCM	20306	OH1	WAT	3376	-11.705	-13.121	62.139	1.00	22.14
ATCM	20307	OH1	WAT	3377	-11.384	0.851	7.191	1.00	24.59
ATCM	20308	OH1	WAT	3378	41.978	-11.347	14.191	1.00	21.08
ATCM	20309	OH1	WAT	3379	-1.147	-13.817	6.880	1.00	21.32
ATCM	20310	OH1	WAT	3380	-6.118	-27.767	18.113	1.00	21.19
ATCM	20311	OH1	WAT	3381	-6.114	-4.834	-10.111	1.00	23.42
ATCM	20312	OH1	WAT	3382	-21.061	-11.167	68.191	1.00	30.13
ATCM	20313	OH1	WAT	3383	-14.706	-13.131	29.131	1.00	20.36
ATCM	20314	OH1	WAT	3384	48.111	2.110	13.111	1.00	21.76
ATCM	20315	OH1	WAT	3385	11.115	3.110	67.111	1.00	21.51
ATCM	20316	OH1	WAT	3386	-11.908	3.111	-15.821	1.00	31.73
ATCM	20317	OH1	WAT	3387	59.115	2.111	42.111	1.00	21.09
ATCM	20318	OH2	WAT	3388	17.017	16.818	20.711	1.00	31.71
ATCM	20319	OH2	WAT	3389	6.118	15.911	7.111	1.00	31.77
ATCM	20320	OH2	WAT	3390	34.011	-21.421	18.111	1.00	11.60
ATCM	20321	OH2	WAT	3391	18.016	-51.130	15.116	1.00	21.16
ATCM	20322	OH2	WAT	3392	-21.019	-4.480	51.041	1.00	21.52
ATCM	20323	OH2	WAT	3393	25.717	-32.029	53.311	1.00	17.81
ATCM	20324	OH2	WAT	3394	3.114	19.011	5.147	1.00	31.14
ATCM	20325	OH2	WAT	3395	14.012	19.011	53.213	1.00	11.96
ATCM	20326	OH2	WAT	3396	24.019	-14.081	20.811	1.00	21.72
ATCM	20327	OH2	WAT	3397	13.110	17.001	38.711	1.00	21.42
ATCM	20328	OH2	WAT	3398	-1.012	-4.061	56.914	1.00	31.48
ATCM	20329	OH2	WAT	3399	6.102	15.994	13.011	1.00	21.19
ATCM	20330	OH2	WAT	3400	14.010	3.846	-18.011	1.00	19.32
ATCM	20331	OH2	WAT	3401	-3.124	15.004	-19.713	1.00	21.92
ATCM	20332	OH2	WAT	3402	31.119	-6.981	-11.711	1.00	21.64
ATCM	20333	OH2	WAT	3403	1.848	15.011	37.447	1.00	21.96
ATCM	20334	OH2	WAT	3404	-4.394	5.307	38.927	1.00	21.92
ATCM	20335	OH2	WAT	3405	-1.462	13.189	-3.041	1.00	21.36
ATCM	20336	OH2	WAT	3406	21.004	-11.699	19.919	1.00	21.34
ATCM	20337	OH2	WAT	3407	-21.038	4.127	39.671	1.00	21.61
ATCM	20338	OH2	WAT	3408	-1.613	-10.051	5.917	1.00	21.21
ATCM	20339	OH2	WAT	3409	31.032	1.167	48.204	1.00	21.20
ATCM	20340	OH2	WAT	3410	-16.221	-9.667	65.519	1.00	21.52
ATCM	20341	OH2	WAT	3411	-21.467	-3.121	43.311	1.00	21.41
ATCM	20342	OH2	WAT	3412	-21.938	1.741	66.477	1.00	21.91
ATCM	20343	OH2	WAT	3413	1.116	13.954	55.111	1.00	21.07
ATCM	20344	OH2	WAT	3414	-23.211	-31.434	12.016	1.00	21.24
ATCM	20345	OH2	WAT	3415	1.117	13.734	45.614	1.00	21.51
ATCM	20346	OH2	WAT	3416	-12.454	3.743	32.319	1.00	11.67
ATCM	20347	OH2	WAT	3417	-13.447	-6.868	40.520	1.00	21.91
ATCM	20348	OH2	WAT	3418	-3.102	-3.929	44.111	1.00	21.51
ATCM	20349	OH2	WAT	3419	-13.120	-46.911	4.911	1.00	21.66
ATCM	20350	OH2	WAT	3420	13.742	3.129	46.910	1.00	21.51
ATCM	20351	OH2	WAT	3421	14.049	-14.727	71.111	1.00	21.11
ATCM	20352	OH2	WAT	3422	25.532	-3.124	59.811	1.00	21.87
ATCM	20353	OH2	WAT	3423	14.242	4.464	4.801	1.00	21.11
ATCM	20354	OH2	WAT	3424	2.505	-8.983	62.071	1.00	21.05
ATCM	20355	OH2	WAT	3425	6.236	16.111	5.311	1.00	21.87
ATCM	20356	OH2	WAT	3426	11.111	-1.111	1.111	1.00	21.11

ATOM	20357	OH2	WAT	3427	10.084	5.888	54.362	1.00	18.70
ATOM	20358	OH2	WAT	3428	-27.669	-4.854	17.585	1.00	27.63
ATOM	20359	OH2	WAT	3429	16.131	-57.526	20.651	1.00	27.80
ATOM	20360	OH2	WAT	3430	34.810	-10.761	21.863	1.00	26.66
ATOM	20361	OH2	WAT	3431	38.906	-5.089	-12.711	1.00	30.66
ATOM	20362	OH2	WAT	3432	5.036	6.210	15.329	1.00	21.16
ATOM	20363	OH2	WAT	3433	-5.338	0.253	17.916	1.00	28.50
ATOM	20364	OH2	WAT	3434	-6.451	25.358	65.175	1.00	28.57
ATOM	20365	OH2	WAT	3435	36.185	-20.851	68.135	1.00	27.16
ATOM	20366	OH2	WAT	3436	48.659	-21.333	-1.106	1.00	23.34
ATOM	20367	OH2	WAT	3437	56.092	19.087	34.416	1.00	35.14
ATOM	20368	OH2	WAT	3438	-36.025	-8.525	13.785	1.00	38.59
ATOM	20369	OH2	WAT	3439	-17.840	-10.619	6.1281	1.00	21.35
ATOM	20370	OH2	WAT	3440	4.181	-8.621	64.549	1.00	25.99
ATOM	20371	OH2	WAT	3441	26.000	-4.755	13.783	1.00	27.61
ATOM	20372	OH2	WAT	3442	-3.412	21.856	-28.059	1.00	21.29
ATOM	20373	OH2	WAT	3443	-1.879	17.602	4.154	1.00	26.62
ATOM	20374	OH2	WAT	3444	-9.621	-0.559	-8.001	1.00	22.06
ATOM	20375	OH2	WAT	3445	-3.952	1.101	-8.054	1.00	28.67
ATOM	20376	OH2	WAT	3446	-10.636	18.278	5.1797	1.00	24.48
ATOM	20377	OH2	WAT	3447	-21.947	1.538	4.152	1.00	24.82
ATOM	20378	OH2	WAT	3448	6.711	-26.555	4.186	1.00	21.57
ATOM	20379	OH2	WAT	3449	-18.026	4.149	1.494	1.00	20.12
ATOM	20380	OH2	WAT	3450	16.130	-53.451	16.617	1.00	19.97
ATOM	20381	OH2	WAT	3451	27.089	-6.312	-14.609	1.00	24.66
ATOM	20382	OH2	WAT	3452	27.135	-6.186	16.601	1.00	18.64
ATOM	20383	OH2	WAT	3453	1.2745	1.1571	18.719	1.00	23.11
ATOM	20384	OH2	WAT	3454	-17.137	-1.252	26.877	1.00	19.51
ATOM	20385	OH2	WAT	3455	18.138	-15.336	3.1817	1.00	18.81
ATOM	20386	OH2	WAT	3456	8.787	-48.334	18.866	1.00	23.83
ATOM	20387	OH2	WAT	3457	14.149	19.484	28.023	1.00	17.12
ATOM	20388	OH2	WAT	3458	1.2577	-17.345	36.133	1.00	23.66
ATOM	20389	OH2	WAT	3459	8.1065	1.247	16.461	1.00	21.34
ATOM	20390	OH2	WAT	3460	-19.811	17.113	-50.689	1.00	24.24
ATOM	20391	OH2	WAT	3461	41.814	-2.151	58.143	1.00	20.16
ATOM	20392	OH2	WAT	3462	-3.332	-1.632	26.665	1.00	26.18
ATOM	20393	OH2	WAT	3463	-11.777	-11.307	36.113	1.00	21.56
ATOM	20394	OH2	WAT	3464	2.658	48.419	11.653	1.00	31.81
ATOM	20395	OH2	WAT	3465	-14.107	1.840	6.827	1.00	18.27
ATOM	20396	OH2	WAT	3466	41.165	1.503	24.155	1.00	20.56
ATOM	20397	OH2	WAT	3467	31.131	-48.501	11.161	1.00	25.58
ATOM	20398	OH2	WAT	3468	14.133	-1.143	-3.544	1.00	21.11
ATOM	20399	OH2	WAT	3469	-11.808	-41.623	14.434	1.00	23.41
ATOM	20400	OH2	WAT	3470	33.724	-31.627	60.285	1.00	31.57
ATOM	20401	OH2	WAT	3471	21.385	-58.814	11.683	1.00	21.50
ATOM	20402	OH2	WAT	3472	24.408	-23.548	44.709	1.00	26.59
ATOM	20403	OH2	WAT	3473	26.606	-49.653	21.511	1.00	23.17
ATOM	20404	OH2	WAT	3474	13.811	-17.127	34.897	1.00	17.19
ATOM	20405	OH2	WAT	3475	21.718	14.837	1.813	1.00	24.90
ATOM	20406	OH2	WAT	3476	23.441	-8.752	54.935	1.00	14.51
ATOM	20407	OH2	WAT	3477	24.448	30.715	43.933	1.00	26.95
ATOM	20408	OH2	WAT	3478	41.133	13.938	19.636	1.00	31.98
ATOM	20409	OH2	WAT	3479	20.286	-31.473	61.570	1.00	20.29
ATOM	20410	OH2	WAT	3480	18.336	-16.573	11.711	1.00	23.38
ATOM	20411	OH2	WAT	3481	-14.315	28.332	61.638	1.00	40.66
ATOM	20412	OH2	WAT	3482	31.625	-26.778	39.823	1.00	33.03
ATOM	20413	OH2	WAT	3483	-3.036	36.561	2.053	1.00	38.60
ATOM	20414	OH2	WAT	3484	9.365	-33.525	33.001	1.00	30.29
ATOM	20415	OH2	WAT	3485	1.375	-31.533	10.531	1.00	11.28
ATOM	20416	OH2	WAT	3486	17.184	-13.500	-21.519	1.00	28.57
ATOM	20417	OH2	WAT	3487	7.594	28.777	40.806	1.00	21.23
ATOM	20418	OH2	WAT	3488	-8.436	23.175	21.913	1.00	18.42
ATOM	20419	OH2	WAT	3489	23.474	3.355	1.147	1.00	32.93
ATOM	20420	OH2	WAT	3490	0.202	20.341	7.100	1.00	22.13
ATOM	20421	OH2	WAT	3491	6.803	-7.637	5.534	1.00	18.64
ATOM	20422	OH2	WAT	3492	32.483	-21.131	-10.346	1.00	30.63
ATOM	20423	OH2	WAT	3493	7.930	-16.494	18.830	1.00	20.22
ATOM	20424	OH2	WAT	3494	-4.506	-24.596	3.635	1.00	18.39
ATOM	20425	OH2	WAT	3495	19.201	-19.687	36.887	1.00	24.52
ATOM	20426	OH2	WAT	3496	-1.557	19.729	17.639	1.00	19.45
ATOM	20427	OH2	WAT	3497	-29.812	-4.305	64.317	1.00	19.66
ATOM	20428	OH2	WAT	3498	-26.364	8.727	-2.492	1.00	23.78
ATOM	20429	OH2	WAT	3499	3.131	-15.486	54.460	1.00	26.52
ATOM	20430	OH2	WAT	3500	-4.211	28.797	70.359	1.00	29.23
ATOM	20431	OH2	WAT	3501	23.091	-1.819	22.141	1.00	27.87
ATOM	20432	OH2	WAT	3502	53.326	7.162	46.155	1.00	28.40
ATOM	20433	OH2	WAT	3503	43.327	11.344	54.139	1.00	25.03

ATOM	20434	OH2	WAT	3504	-7.826	15.601	26.509	1.00	22.64
ATOM	20435	OH2	WAT	3505	4.797	-16.467	-3.276	1.00	30.07
ATOM	20436	OH2	WAT	3506	31.644	-6.523	-13.027	1.00	21.55
ATOM	20437	OH2	WAT	3507	21.645	31.025	60.647	1.00	17.86
ATOM	20438	OH2	WAT	3508	14.591	8.814	50.006	1.00	23.64
ATOM	20439	OH2	WAT	3509	-17.112	4.640	49.766	1.00	25.89
ATOM	20440	OH2	WAT	3510	6.062	-26.464	52.738	1.00	30.15
ATOM	20441	OH2	WAT	3511	5.200	26.208	12.471	1.00	34.11
ATOM	20442	OH2	WAT	3512	16.071	0.370	-25.723	1.00	35.19
ATOM	20443	OH2	WAT	3513	32.797	-0.160	48.448	1.00	20.41
ATOM	20444	OH2	WAT	3514	-16.216	1.768	0.259	1.00	28.90
ATOM	20445	OH2	WAT	3515	-5.097	2.007	1.772	1.00	19.92
ATOM	20446	OH2	WAT	3516	-14.599	-28.368	53.744	1.00	48.61
ATOM	20447	OH2	WAT	3517	1.156	-15.041	9.961	1.00	24.79
ATOM	20448	OH2	WAT	3518	29.942	12.701	27.604	1.00	52.11
ATOM	20449	OH2	WAT	3519	20.353	22.477	26.147	1.00	14.74
ATOM	20450	OH2	WAT	3520	11.156	-14.134	75.415	1.00	15.84
ATOM	20451	OH2	WAT	3521	38.180	-15.116	56.012	1.00	22.85
ATOM	20452	OH2	WAT	3522	14.649	-24.017	21.168	1.00	19.17
ATOM	20453	OH2	WAT	3523	36.847	8.880	26.719	1.00	14.17
ATOM	20454	OH2	WAT	3524	-0.258	-8.716	21.154	1.00	17.71
ATOM	20455	OH2	WAT	3525	17.453	-26.604	11.351	1.00	14.89
ATOM	20456	OH2	WAT	3526	-0.604	-51.966	15.853	1.00	18.83
ATOM	20457	OH2	WAT	3527	-9.459	-21.906	19.847	1.00	19.19
ATOM	20458	OH2	WAT	3528	29.511	-4.884	10.487	1.00	27.09
ATOM	20459	OH2	WAT	3529	14.158	-11.512	9.156	1.00	29.07
ATOM	20460	OH2	WAT	3530	-14.703	20.404	38.717	1.00	18.81
ATOM	20461	OH2	WAT	3531	-7.105	1.116	-13.151	1.00	19.82
ATOM	20462	OH2	WAT	3532	21.848	-21.515	48.841	1.00	17.16
ATOM	20463	OH2	WAT	3533	26.024	-2.915	30.963	1.00	17.28
ATOM	20464	OH2	WAT	3534	13.251	23.815	68.702	1.00	11.75
ATOM	20465	OH2	WAT	3535	-13.136	-41.911	8.143	1.00	17.30
ATOM	20466	OH2	WAT	3536	-3.661	29.879	18.235	1.00	12.35
ATOM	20467	OH2	WAT	3537	42.444	-25.110	59.777	1.00	10.29
ATOM	20468	OH2	WAT	3538	-0.684	13.870	69.603	1.00	16.94
ATOM	20469	OH2	WAT	3539	-1.141	19.117	14.623	1.00	10.23
ATOM	20470	OH2	WAT	3540	-5.666	-28.177	31.523	1.00	31.11
ATOM	20471	OH2	WAT	3541	37.481	-2.816	44.597	1.00	23.36
ATOM	20472	OH2	WAT	3542	-4.059	-1.005	-0.721	1.00	31.72
ATOM	20473	OH2	WAT	3543	42.257	-3.005	48.281	1.00	11.44
ATOM	20474	OH2	WAT	3544	16.003	15.415	17.535	1.00	27.61
ATOM	20475	OH2	WAT	3545	-12.199	21.117	33.789	1.00	14.11
ATOM	20476	OH2	WAT	3546	43.270	11.118	43.176	1.00	11.17
ATOM	20477	OH2	WAT	3547	8.127	-56.415	24.805	1.00	11.10
ATOM	20478	OH2	WAT	3548	20.613	33.134	62.910	1.00	26.19
ATOM	20479	OH2	WAT	3549	25.111	15.489	30.152	1.00	27.79
ATOM	20480	OH2	WAT	3550	45.970	21.490	26.630	1.00	8.197
ATOM	20481	OH2	WAT	3551	2.048	-27.128	63.747	1.00	11.51
ATOM	20482	OH2	WAT	3552	-5.000	1.642	-22.794	1.00	16.73
ATOM	20483	OH2	WAT	3553	40.494	-30.156	61.514	1.00	31.19
ATOM	20484	OH2	WAT	3554	21.635	29.412	51.900	1.00	24.47
ATOM	20485	OH2	WAT	3555	20.234	18.148	51.367	1.00	21.61
ATOM	20486	OH2	WAT	3556	6.120	8.110	18.848	1.00	11.10
ATOM	20487	OH2	WAT	3557	-23.460	-31.144	21.786	1.00	21.74
ATOM	20488	OH2	WAT	3558	31.694	-28.168	52.744	1.00	28.76
ATOM	20489	OH2	WAT	3559	-0.279	24.148	69.002	1.00	21.63
ATOM	20490	OH2	WAT	3560	-13.153	-13.119	5.954	1.00	31.16
ATOM	20491	OH2	WAT	3561	-11.739	2.111	48.121	1.00	21.41
ATOM	20492	OH2	WAT	3562	25.341	-1.106	41.178	1.00	31.71
ATOM	20493	OH2	WAT	3563	-19.840	1.117	11.289	1.00	31.93
ATOM	20494	OH2	WAT	3564	35.401	-16.897	38.350	1.00	21.60
ATOM	20495	OH2	WAT	3565	5.379	11.111	23.101	1.00	31.53
ATOM	20496	OH2	WAT	3566	-12.663	21.113	21.586	1.00	21.87
ATOM	20497	OH2	WAT	3567	2.132	24.119	73.739	1.00	26.21
ATOM	20498	OH2	WAT	3568	34.123	1.110	38.153	1.00	31.71
ATOM	20499	OH2	WAT	3569	-1.126	31.117	44.749	1.00	21.66
ATOM	20500	OH2	WAT	3570	12.732	-44.125	29.754	1.00	21.41
ATOM	20501	OH2	WAT	3571	54.364	-4.103	57.668	1.00	26.75
ATOM	20502	OH2	WAT	3572	8.524	5.132	51.293	1.00	29.43
ATOM	20503	OH2	WAT	3573	2.845	-17.111	27.691	1.00	23.24
ATOM	20504	OH2	WAT	3574	-16.502	21.116	-18.994	1.00	27.16
ATOM	20505	OH2	WAT	3575	43.324	31.138	62.154	1.00	21.25
ATOM	20506	OH2	WAT	3576	-13.809	13.171	12.611	1.00	21.22
ATOM	20507	OH2	WAT	3577	6.416	-10.111	67.564	1.00	25.45
ATOM	20508	OH2	WAT	3578	23.429	24.177	10.075	1.00	31.50
ATOM	20509	OH2	WAT	3579	18.146	5.109	41.591	1.00	27.60
ATOM	20510	OH2	WAT	3580	11.108	14.111	34.111	1.00	21.11

ATOM	20511	OH2	WAT	3581	9.784	-6.629	15.625	1.00	15.08
ATOM	20512	OH2	WAT	3582	5.497	-17.436	23.138	1.00	25.09
ATOM	20513	OH2	WAT	3583	5.991	6.071	43.749	1.00	15.66
ATOM	20514	OH2	WAT	3584	3.189	-11.871	38.573	1.00	16.45
ATOM	20515	OH2	WAT	3585	-9.207	-13.212	31.665	1.00	15.45
ATOM	20516	OH2	WAT	3586	13.061	-15.561	35.959	1.00	21.15
ATOM	20517	OH2	WAT	3587	26.585	15.736	21.973	1.00	26.75
ATOM	20518	OH2	WAT	3588	21.690	3.770	17.740	1.00	23.84
ATOM	20519	OH2	WAT	3589	5.607	17.572	31.827	1.00	19.68
ATOM	20520	OH2	WAT	3590	5.176	-14.520	35.798	1.00	29.55
ATOM	20521	OH2	WAT	3591	-13.855	19.020	-15.603	1.00	20.14
ATOM	20522	OH2	WAT	3592	23.420	11.927	35.716	1.00	18.41
ATOM	20523	OH2	WAT	3593	-3.566	-1.525	-6.831	1.00	34.17
ATOM	20524	OH2	WAT	3594	24.320	2.280	42.362	1.00	24.09
ATOM	20525	OH2	WAT	3595	18.083	6.614	44.619	1.00	25.35
ATOM	20526	OH2	WAT	3596	15.145	1.171	-17.886	1.00	21.55
ATOM	20527	OH2	WAT	3597	24.371	9.943	24.117	1.00	21.56
ATOM	20528	OH2	WAT	3598	16.763	-1.795	47.475	1.00	21.96
ATOM	20529	OH2	WAT	3599	6.414	-0.252	11.154	1.00	18.76
ATOM	20530	OH2	WAT	3600	-4.201	-10.316	27.179	1.00	25.57
ATOM	20531	OH2	WAT	3601	-6.184	-1.175	45.158	1.00	25.16
ATOM	20532	OH2	WAT	3602	23.187	15.179	24.059	1.00	23.99
ATOM	20533	OH2	WAT	3603	11.551	-10.272	13.182	1.00	23.06
ATOM	20534	OH2	WAT	3604	21.697	8.726	16.505	1.00	25.14
ATOM	20535	OH2	WAT	3605	13.802	6.171	48.215	1.00	21.57
ATOM	20536	OH2	WAT	3606	3.127	56.134	48.418	1.00	23.65
ATOM	20537	OH2	WAT	3607	3.378	-10.131	17.859	1.00	16.35
ATOM	20538	OH2	WAT	3608	4.111	-14.512	13.885	1.00	25.12
ATOM	20539	OH2	WAT	3609	43.617	26.558	65.115	1.00	36.56
ATOM	20540	OH2	WAT	3610	13.137	-2.537	44.457	1.00	17.58
ATOM	20541	OH2	WAT	3611	11.131	-17.575	16.723	1.00	25.33
ATOM	20542	OH2	WAT	3612	34.139	-6.330	-15.887	1.00	23.62
ATOM	20543	OH2	WAT	3613	6.446	23.130	35.754	1.00	26.57
ATOM	20544	OH2	WAT	3614	23.131	-3.006	6.151	1.00	23.63
ATOM	20545	OH2	WAT	3615	-13.892	-21.344	21.558	1.00	23.59
ATOM	20546	OH2	WAT	3616	29.434	-23.602	62.577	1.00	25.38
ATOM	20547	OH2	WAT	3617	1.102	-10.113	45.559	1.00	24.16
ATOM	20548	OH2	WAT	3618	1.136	-18.159	17.515	1.00	23.54
ATOM	20549	OH2	WAT	3619	11.131	-11.517	56.594	1.00	23.35
ATOM	20550	OH2	WAT	3620	4.133	-14.368	56.155	1.00	23.33
ATOM	20551	OH2	WAT	3621	23.454	3.164	55.662	1.00	23.15
ATOM	20552	OH2	WAT	3622	21.125	-24.156	16.355	1.00	24.95
ATOM	20553	OH2	WAT	3623	6.764	-20.733	49.658	1.00	16.17
ATOM	20554	OH2	WAT	3624	3.325	4.718	52.388	1.00	26.67
ATOM	20555	OH2	WAT	3625	3.746	-14.611	38.887	1.00	25.86
ATOM	20556	OH2	WAT	3626	-4.757	-1.895	1.000	1.00	33.13
ATOM	20557	OH2	WAT	3627	16.135	4.437	45.116	1.00	18.72
ATOM	20558	OH2	WAT	3628	13.111	-4.166	7.896	1.00	22.73
ATOM	20559	OH2	WAT	3629	34.019	-10.130	16.830	1.00	20.92
ATOM	20560	OH2	WAT	3630	-15.249	-40.210	24.657	1.00	23.11
ATOM	20561	OH2	WAT	3631	28.111	-15.143	32.335	1.00	27.11
ATOM	20562	OH2	WAT	3632	18.161	-3.913	44.323	1.00	13.53
ATOM	20563	OH2	WAT	3633	5.1078	-21.485	68.653	1.00	27.31
ATOM	20564	OH2	WAT	3634	-26.539	-9.176	12.412	1.00	18.54
ATOM	20565	OH2	WAT	3635	-15.510	-43.123	29.234	1.00	26.20
ATOM	20566	OH2	WAT	3636	13.167	-11.933	14.443	1.00	14.24
ATOM	20567	OH2	WAT	3637	-4.154	-4.194	13.351	1.00	33.26
ATOM	20568	OH2	WAT	3638	-1.615	3.133	56.155	1.00	15.77
ATOM	20569	OH2	WAT	3639	-4.433	-3.891	44.064	1.00	28.70
ATOM	20570	OH2	WAT	3640	16.833	9.313	-13.235	1.00	54.50
ATOM	20571	OH2	WAT	3641	3.033	-14.321	-16.336	1.00	13.21
ATOM	20572	OH2	WAT	3642	-2.136	-12.144	9.133	1.00	14.16
ATOM	20573	OH2	WAT	3643	13.316	22.387	32.554	1.00	17.43
ATOM	20574	OH2	WAT	3644	13.623	24.247	53.333	1.00	17.93
ATOM	20575	OH2	WAT	3645	3.066	-31.518	26.231	1.00	30.85
ATOM	20576	OH2	WAT	3646	0.512	-7.519	13.955	1.00	25.27
ATOM	20577	OH2	WAT	3647	-2.380	3.642	9.117	1.00	32.18
ATOM	20578	OH2	WAT	3648	-1.634	-13.599	11.638	1.00	34.99
ATOM	20579	OH2	WAT	3649	-7.337	-7.544	19.467	1.00	16.96
ATOM	20580	OH2	WAT	3650	0.133	-23.389	54.451	1.00	23.97
ATOM	20581	OH2	WAT	3651	5.852	-14.327	36.510	1.00	26.63
ATOM	20582	OH2	WAT	3652	14.874	-2.556	13.735	1.00	20.83
ATOM	20583	OH2	WAT	3653	-1.343	3.519	-18.993	1.00	25.64
ATOM	20584	OH2	WAT	3654	-2.613	3.553	24.159	1.00	22.97
ATOM	20585	OH2	WAT	3655	-5.863	-19.164	21.194	1.00	24.77
ATOM	20586	OH2	WAT	3656	11.153	1.987	29.477	1.00	34.55
ATOM	20587	OH2	WAT	3657	40.665	-24.355	22.785	1.00	38.48

ATOM	20588	CH2	WAT	3658	2.870	-32.022	8.417	1.00	26.65
ATOM	20589	CH2	WAT	3659	16.544	-28.551	16.087	1.00	34.40
ATOM	20590	CH2	WAT	3660	-6.861	-27.077	47.127	1.00	22.70
ATOM	20591	CH2	WAT	3661	11.344	-12.961	12.757	1.00	21.21
ATOM	20592	CH2	WAT	3662	23.954	13.058	30.417	1.00	26.23
ATOM	20593	CH2	WAT	3663	-16.483	0.666	27.530	1.00	23.58
ATOM	20594	CH2	WAT	3664	29.982	-28.810	48.321	1.00	25.55
ATOM	20595	CH2	WAT	3665	-17.510	7.053	13.800	1.00	22.45
ATOM	20596	CH2	WAT	3666	1.861	-15.312	79.876	1.00	24.08
ATOM	20597	CH2	WAT	3667	6.562	-5.396	11.525	1.00	29.49
ATOM	20598	CH2	WAT	3668	46.965	1.491	28.729	1.00	29.41
ATOM	20599	CH2	WAT	3669	-32.090	-8.170	19.523	1.00	30.01
ATOM	20600	CH2	WAT	3670	27.927	-19.385	47.561	1.00	22.37
ATOM	20601	CH2	WAT	3671	-22.121	17.236	1.786	1.00	29.58
ATOM	20602	CH2	WAT	3672	31.060	-44.655	11.611	1.00	34.76
ATOM	20603	CH2	WAT	3673	-13.866	7.350	38.529	1.00	29.31
ATOM	20604	CH2	WAT	3674	-27.433	-25.257	70.569	1.00	36.53
ATOM	20605	CH2	WAT	3675	-8.711	-1.581	38.817	1.00	19.08
ATOM	20606	CH2	WAT	3676	20.431	-1.056	56.541	1.00	26.44
ATOM	20607	CH2	WAT	3677	1.710	-18.030	1.509	1.00	17.58
ATOM	20608	CH2	WAT	3678	8.041	-34.813	1.677	1.00	31.51
ATOM	20609	CH2	WAT	3679	1.311	-19.415	1.033	1.00	19.19
ATOM	20610	CH2	WAT	3680	21.911	8.440	1.542	1.00	12.90
ATOM	20611	CH2	WAT	3681	52.044	0.777	61.381	1.00	15.77
ATOM	20612	CH2	WAT	3682	-1.080	-41.815	1.665	1.00	31.57
ATOM	20613	CH2	WAT	3683	20.159	-13.710	38.254	1.00	29.71
ATOM	20614	CH2	WAT	3684	-9.688	11.081	58.081	1.00	15.91
ATOM	20615	CH2	WAT	3685	28.135	-28.816	88.862	1.00	27.11
ATOM	20616	CH2	WAT	3686	39.081	-41.118	18.856	1.00	26.62
ATOM	20617	CH2	WAT	3687	48.908	-7.000	48.151	1.00	26.60
ATOM	20618	CH2	WAT	3688	-17.001	2.383	6.482	1.00	22.76
ATOM	20619	CH2	WAT	3689	31.738	-26.717	18.171	1.00	27.64
ATOM	20620	CH2	WAT	3690	37.471	-8.897	-17.581	1.00	30.40
ATOM	20621	CH2	WAT	3691	16.021	10.615	11.347	1.00	27.49
ATOM	20622	CH2	WAT	3692	38.564	-25.555	28.441	1.00	21.41
ATOM	20623	CH2	WAT	3693	27.314	-32.347	61.678	1.00	26.40
ATOM	20624	CH2	WAT	3694	18.101	-14.114	7.800	1.00	21.15
ATOM	20625	CH2	WAT	3695	-24.681	-14.718	48.643	1.00	34.78
ATOM	20626	CH2	WAT	3696	7.118	-51.346	24.627	1.00	25.64
ATOM	20627	CH2	WAT	3697	-23.951	-2.711	24.135	1.00	26.83
ATOM	20628	CH2	WAT	3698	35.977	-23.315	-9.121	1.00	32.11
ATOM	20629	CH2	WAT	3699	-4.853	3.816	4.392	1.00	28.14
ATOM	20630	CH2	WAT	3700	-25.407	-17.411	57.336	1.00	24.02
ATOM	20631	CH2	WAT	3701	-24.491	-8.019	27.571	1.00	30.46
ATOM	20632	CH2	WAT	3702	-19.443	6.416	47.329	1.00	25.78
ATOM	20633	CH2	WAT	3703	-23.620	14.811	12.427	1.00	24.16
ATOM	20634	CH2	WAT	3704	18.500	41.811	30.190	1.00	31.05
ATOM	20635	CH2	WAT	3705	-3.285	23.810	-18.894	1.00	41.88
ATOM	20636	CH2	WAT	3706	8.076	7.111	12.265	1.00	24.15
ATOM	20637	CH2	WAT	3707	22.472	16.718	36.131	1.00	26.80
ATOM	20638	CH2	WAT	3708	22.116	19.514	24.362	1.00	29.15
ATOM	20639	CH2	WAT	3709	21.660	-1.615	83.178	1.00	28.67
ATOM	20640	CH2	WAT	3710	47.414	-13.517	4.341	1.00	26.15
ATOM	20641	CH2	WAT	3711	31.787	-27.819	44.447	1.00	27.18
ATOM	20642	CH2	WAT	3712	-3.662	17.315	31.733	1.00	23.13
ATOM	20643	CH2	WAT	3713	-27.756	-13.316	53.654	1.00	27.14
ATOM	20644	CH2	WAT	3714	24.158	-26.313	67.591	1.00	25.11
ATOM	20645	CH2	WAT	3715	8.160	15.712	32.041	1.00	29.85
ATOM	20646	CH2	WAT	3716	4.170	25.719	54.347	1.00	32.35
ATOM	20647	CH2	WAT	3717	1.117	-9.311	-13.043	1.00	18.63
ATOM	20648	CH2	WAT	3718	-18.159	-9.412	11.111	1.00	24.14
ATOM	20649	CH2	WAT	3719	28.787	-33.114	1.754	1.00	21.47
ATOM	20650	CH2	WAT	3720	-1.825	9.314	58.691	1.00	23.62
ATOM	20651	CH2	WAT	3721	35.092	-40.014	43.371	1.00	34.58
ATOM	20652	CH2	WAT	3722	33.178	-36.211	11.757	1.00	28.17
ATOM	20653	CH2	WAT	3723	7.779	-26.113	13.154	1.00	18.19
ATOM	20654	CH2	WAT	3724	-15.398	28.117	46.900	1.00	33.34
ATOM	20655	CH2	WAT	3725	14.111	10.911	19.946	1.00	39.42
ATOM	20656	CH2	WAT	3726	20.599	-23.816	76.684	1.00	28.04
ATOM	20657	CH2	WAT	3727	12.600	-30.310	18.044	1.00	48.07
ATOM	20658	CH2	WAT	3728	0.214	-26.710	6.554	1.00	28.93
ATOM	20659	CH2	WAT	3729	19.210	-8.596	4.979	1.00	24.84
ATOM	20660	CH2	WAT	3730	-17.997	34.115	48.180	1.00	28.78
ATOM	20661	CH2	WAT	3731	21.283	23.110	66.967	1.00	26.75
ATOM	20662	CH2	WAT	3732	6.943	19.416	79.713	1.00	30.98
ATOM	20663	CH2	WAT	3733	13.774	4.411	43.061	1.00	24.84
ATOM	20664	CH2	WAT	3734	27.594	-6.210	39.139	1.00	31.10

ATOM	20665	OH2	WAT	3735	20.794	11.104	12 321	1.00	27.55
ATOM	20666	OH2	WAT	3736	51.255	16.589	59 899	1.00	30.84
ATOM	20667	OH2	WAT	3737	22.183	-14.735	24 243	1.00	28.02
ATOM	20668	OH2	WAT	3738	44.096	-11.702	13 654	1.00	18.13
ATOM	20669	OH2	WAT	3739	18.413	-23.992	49 772	1.00	32.67
ATOM	20670	OH2	WAT	3740	10.967	16.582	34 278	1.00	31.80
ATOM	20671	OH2	WAT	3741	-9.858	9.583	20 327	1.00	29.75
ATOM	20672	OH2	WAT	3742	0.898	42.464	5 444	1.00	33.16
ATOM	20673	OH2	WAT	3743	-1.902	-29.127	37 039	1.00	23.75
ATOM	20674	OH2	WAT	3744	36.118	-24.732	33 177	1.00	44.37
ATOM	20675	OH2	WAT	3745	7.115	7.122	37 485	1.00	12.60
ATOM	20676	OH2	WAT	3746	-10.961	3.269	51 233	1.00	27.65
ATOM	20677	OH2	WAT	3747	52.348	17.944	49.348	1.00	27.14
ATOM	20678	OH2	WAT	3748	7.608	22.178	51.653	1.00	40.12
ATOM	20679	OH2	WAT	3749	30.204	-34.717	27.770	1.00	24.03
ATOM	20680	OH2	WAT	3750	12.504	19.874	31 976	1.00	23.45
ATOM	20681	OH2	WAT	3751	-3.814	-23.747	36.532	1.00	28.02
ATOM	20682	OH2	WAT	3752	47.147	16.831	44 537	1.00	26.65
ATOM	20683	OH2	WAT	3753	14.620	-30.419	44 684	1.00	25.81
ATOM	20684	OH2	WAT	3754	-4.861	-9.765	8.537	1.00	30.38
ATOM	20685	OH2	WAT	3755	2.683	32.606	59.195	1.00	32.34
ATOM	20686	OH2	WAT	3756	14.615	13.812	16.341	1.00	16.08
ATOM	20687	H2	WAT	3757	-10.579	29.127	63.951	1.00	31.36
ATOM	20688	H2	WAT	3758	4.068	-13.116	70.087	1.00	32.73
ATOM	20689	H2	WAT	3759	-8.558	-23.729	1.641	1.00	45.40
ATOM	20690	H2	WAT	3760	-4.873	16.727	21.573	1.00	23.16
ATOM	20691	H2	WAT	3761	30.208	-25.918	43.503	1.00	11.87
ATOM	20692	H2	WAT	3762	-1.663	24.125	46.035	1.00	21.19
ATOM	20693	OH2	WAT	3763	52.347	-5.915	60.211	1.00	23.88
ATOM	20694	H2	WAT	3764	1.277	18.438	6.878	1.00	33.34
ATOM	20695	OH2	WAT	3765	3.140	-19.641	19.266	1.00	23.80
ATOM	20696	H2	WAT	3766	26.228	14.581	21.816	1.00	36.76
ATOM	20697	OH2	WAT	3767	-6.738	25.111	-7.103	1.00	23.61
ATOM	20698	OH2	WAT	3768	48.106	11.347	3.587	1.00	36.19
ATOM	20699	OH2	WAT	3769	-4.117	-25.882	48.916	1.00	39.30
ATOM	20700	OH2	WAT	3770	6.373	14.161	30.878	1.00	23.75
ATOM	20701	OH2	WAT	3771	26.228	17.581	29.718	1.00	29.81
ATOM	20702	OH2	WAT	3772	-3.177	-41.166	39.616	1.00	31.77
ATOM	20703	OH2	WAT	3773	-24.088	-19.889	26.441	1.00	30.65
ATOM	20704	OH2	WAT	3774	3.768	23.265	64.636	1.00	43.14
ATOM	20705	OH2	WAT	3775	-21.873	-2.210	12.931	1.00	31.10
ATOM	20706	OH2	WAT	3776	36.883	-23.014	23.538	1.00	27.58
ATOM	20707	OH2	WAT	3777	34.896	-31.558	17.185	1.00	33.12
ATOM	20708	OH2	WAT	3778	22.682	27.171	37.317	1.00	34.17
ATOM	20709	OH2	WAT	3779	26.988	8.717	7.225	1.00	27.82
ATOM	20710	OH2	WAT	3780	24.898	10.935	2.743	1.00	26.45
ATOM	20711	OH2	WAT	3781	4.098	41.107	8.799	1.00	21.48
ATOM	20712	OH2	WAT	3782	-19.758	-19.615	50.433	1.00	33.38
ATOM	20713	OH2	WAT	3783	41.041	7.501	10.319	1.00	32.40
ATOM	20714	OH2	WAT	3784	38.647	-37.049	16.470	1.00	27.42
ATOM	20715	OH2	WAT	3785	28.113	-10.501	38.607	1.00	13.74
ATOM	20716	OH2	WAT	3786	34.133	13.567	2.812	1.00	13.77
ATOM	20717	OH2	WAT	3787	41.018	-5.644	6.389	1.00	32.77
ATOM	20718	OH2	WAT	3788	1.927	13.217	17.887	1.00	23.75
ATOM	20719	OH2	WAT	3789	0.963	-39.198	5.123	1.00	40.67
ATOM	20720	OH2	WAT	3790	11.619	-2.645	49.001	1.00	13.41
ATOM	20721	OH2	WAT	3791	24.017	-41.765	4.883	1.00	29.10
ATOM	20722	OH2	WAT	3792	18.437	28.346	37.654	1.00	16.37
ATOM	20723	OH2	WAT	3793	2.363	-52.758	34.049	1.00	15.61
ATOM	20724	OH2	WAT	3794	-1.316	19.596	37.377	1.00	17.30
ATOM	20725	OH2	WAT	3795	3.273	-43.734	24.100	1.00	17.60
ATOM	20726	OH2	WAT	3796	3.636	6.892	37.850	1.00	19.61
ATOM	20727	OH2	WAT	3797	31.924	-23.245	-11.987	1.00	16.01
ATOM	20728	OH2	WAT	3798	-23.350	8.184	62.170	1.00	16.98
ATOM	20729	OH2	WAT	3799	21.818	5.515	13.092	1.00	30.34
ATOM	20730	OH2	WAT	800	3.244	31.952	59.964	1.00	10.49
ATOM	20731	OH2	WAT	801	11.215	-4.378	19.504	1.00	16.27
ATOM	20732	OH2	WAT	802	17.155	28.856	49.985	1.00	32.00
ATOM	20733	OH2	WAT	803	30.346	21.709	36.963	1.00	33.86
ATOM	20734	OH2	WAT	804	14.822	6.385	18.289	1.00	16.94
ATOM	20735	OH2	WAT	805	40.376	26.198	52.363	1.00	33.33
ATOM	20736	OH2	WAT	806	16.735	19.657	0.767	1.00	34.40
ATOM	20737	OH2	WAT	807	46.737	-11.310	5.258	1.00	33.73
ATOM	20738	OH2	WAT	808	6.196	37.101	65.886	1.00	25.32
ATOM	20739	OH2	WAT	809	33.898	16.337	34.974	1.00	25.93
ATOM	20740	OH2	WAT	810	-29.017	37.395	18.764	1.00	34.31
ATOM	20741	OH2	WAT	811	5.143	46.183	14.836	1.00	35.13

ATOM	20742	OH2	WAT	3812	7.988	-3.484	64.242	1.00	31.97
ATOM	20743	OH2	WAT	3813	5.432	-9.598	10.054	1.00	23.06
ATOM	20744	OH2	WAT	3814	19.244	-6.256	-9.064	1.00	30.91
ATOM	20745	OH2	WAT	3815	43.635	-31.259	49.737	1.00	23.64
ATOM	20746	OH2	WAT	3816	-5.313	-6.920	37.151	1.00	39.91
ATOM	20747	OH2	WAT	3817	4.564	24.582	-5.136	1.00	32.01
ATOM	20748	OH2	WAT	3818	10.520	-2.740	-26.086	1.00	14.31
ATOM	20749	OH2	WAT	3819	62.145	14.377	25.314	1.00	42.14
ATOM	20750	OH2	WAT	3820	9.862	-15.964	17.552	1.00	29.61
ATOM	20751	OH2	WAT	3821	-0.367	-50.398	19.754	1.00	33.87
ATOM	20752	OH2	WAT	3822	2.304	-6.541	19.517	1.00	31.26
ATOM	20753	OH2	WAT	3823	41.519	-23.055	-7.279	1.00	42.13
ATOM	20754	OH2	WAT	3824	16.162	-20.005	75.171	1.00	26.41
ATOM	20755	OH2	WAT	3825	10.546	-21.372	-6.968	1.00	26.41
ATOM	20756	OH2	WAT	3826	-11.694	-23.711	34.632	1.00	29.91
ATOM	20757	OH2	WAT	3827	14.382	-24.322	57.140	1.00	41.11
ATOM	20758	OH2	WAT	3828	33.815	-15.624	27.791	1.00	26.84
ATOM	20759	OH2	WAT	3829	-10.821	-40.821	-4.951	1.00	24.11
ATOM	20760	OH2	WAT	3830	2.070	-13.238	-20.561	1.00	39.51
ATOM	20761	OH2	WAT	3831	-1.423	-43.194	35.131	1.00	21.24
ATOM	20762	OH2	WAT	3832	16.519	-33.611	54.111	1.00	21.13
ATOM	20763	OH2	WAT	3833	17.511	-33.892	75.111	1.00	31.11
ATOM	20764	OH2	WAT	3834	-2.872	-43.802	25.141	1.00	31.11
ATOM	20765	OH2	WAT	3835	18.475	-51.085	15.101	1.00	14.11
ATOM	20766	OH2	WAT	3836	41.866	-20.963	51.111	1.00	21.11
ATOM	20767	OH2	WAT	3837	-2.412	-41.152	36.146	1.00	29.11
ATOM	20768	OH2	WAT	3838	-17.113	-13.842	26.196	1.00	16.11
ATOM	20769	OH2	WAT	3839	33.941	-15.122	25.121	1.00	12.11
ATOM	20770	OH2	WAT	3840	-17.547	-13.123	-10.101	1.00	14.11
ATOM	20771	OH2	WAT	3841	-11.729	-23.678	13.141	1.00	18.11
ATOM	20772	OH2	WAT	3842	-1.775	-33.809	54.104	1.00	19.11
ATOM	20773	OH2	WAT	3843	26.915	-23.472	48.178	1.00	21.11
ATOM	20774	OH2	WAT	3844	13.649	-13.971	-4.151	1.00	18.11
ATOM	20775	OH2	WAT	3845	-1.764	-33.554	54.163	1.00	14.11
ATOM	20776	OH2	WAT	3846	49.413	-21.010	54.166	1.00	14.11
ATOM	20777	OH2	WAT	3847	-0.118	-13.614	11.111	1.00	18.11
ATOM	20778	OH2	WAT	3848	-4.101	-53.981	13.128	1.00	21.11
ATOM	20779	OH2	WAT	3849	12.667	-33.875	21.121	1.00	27.11
ATOM	20780	OH2	WAT	3850	1.646	-33.618	31.141	1.00	13.11
ATOM	20781	OH2	WAT	3851	-0.470	-23.594	36.166	1.00	11.11
ATOM	20782	OH2	WAT	3852	-1.123	-41.667	31.153	1.00	14.11
ATOM	20783	OH2	WAT	3853	24.103	-13.990	54.121	1.00	18.11
ATOM	20784	OH2	WAT	3854	17.164	-13.588	21.161	1.00	13.11
ATOM	20785	OH2	WAT	3855	-28.191	-14.815	51.191	1.00	16.11
ATOM	20786	OH2	WAT	3856	20.802	-43.682	34.114	1.00	35.11
ATOM	20787	OH2	WAT	3857	-2.478	-24.739	11.251	1.00	36.11
ATOM	20788	OH2	WAT	3858	50.447	-41.107	51.174	1.00	35.11
ATOM	20789	OH2	WAT	3859	-32.130	-41.217	14.141	1.00	36.11
ATOM	20790	OH2	WAT	3860	24.061	-51.738	34.186	1.00	11.11
ATOM	20791	OH2	WAT	3861	29.112	-7.952	25.161	1.00	36.11
ATOM	20792	OH2	WAT	3862	37.184	-13.315	28.128	1.00	28.11
ATOM	20793	OH2	WAT	3863	36.155	-20.133	38.141	1.00	25.11
ATOM	20794	OH2	WAT	3864	-0.137	-33.408	54.144	1.00	23.11
ATOM	20795	OH2	WAT	3865	11.362	-47.893	37.151	1.00	20.11
ATOM	20796	OH2	WAT	3866	-15.117	-23.731	62.158	1.00	31.11
ATOM	20797	OH2	WAT	3867	42.131	-21.336	46.100	1.00	24.11
ATOM	20798	OH2	WAT	3868	32.116	-19.299	26.191	1.00	23.11
ATOM	20799	OH2	WAT	3869	15.115	-17.195	25.110	1.00	20.11
ATOM	20800	OH2	WAT	3870	7.219	-17.151	-3.129	1.00	29.11
ATOM	20801	OH2	WAT	3871	2.717	-41.008	66.132	1.00	27.11
ATOM	20802	OH2	WAT	3872	34.114	-29.691	18.175	1.00	19.11
ATOM	20803	OH2	WAT	3873	13.116	-13.119	12.110	1.00	31.11
ATOM	20804	OH2	WAT	3874	-18.116	-33.195	25.114	1.00	31.11
ATOM	20805	OH2	WAT	3875	10.116	-43.117	24.112	1.00	31.11
ATOM	20806	OH2	WAT	3876	-20.112	-13.169	6.115	1.00	27.11
ATOM	20807	OH2	WAT	3877	24.120	-7.150	21.178	1.00	31.11
ATOM	20808	OH2	WAT	3878	-0.115	-41.161	32.119	1.00	23.11
ATOM	20809	OH2	WAT	3879	21.114	-13.129	43.133	1.00	13.11
ATOM	20810	OH2	WAT	3880	-4.114	-39.191	-0.282	1.00	11.11
ATOM	20811	OH2	WAT	3881	10.103	-13.170	5.179	1.00	11.11
ATOM	20812	OH2	WAT	3882	26.114	-13.163	17.172	1.00	18.11
ATOM	20813	OH2	WAT	3883	34.118	-11.161	3.210	1.00	31.11
ATOM	20814	OH2	WAT	3884	11.114	-13.149	28.115	1.00	13.11
ATOM	20815	OH2	WAT	3885	-4.117	-38.143	61.165	1.00	31.11
ATOM	20816	OH2	WAT	3886	43.114	-6.159	8.710	1.00	33.11
ATOM	20817	OH2	WAT	3887	-3.111	-21.111	8.111	1.00	24.11
ATOM	20818	OH2	WAT	3888	11.111	-13.114	66.154	1.00	31.11

ATOM	20819	OH2	WAT	3889	9.100	5.403	58.911	1.00	28.07
ATOM	20820	OH2	WAT	3890	-2.005	3.998	40.706	1.00	30.75
ATOM	20821	OH2	WAT	3891	-7.292	-27.196	1.998	1.00	34.01
ATOM	20822	OH2	WAT	3892	19.157	-5.927	15.506	1.00	31.49
ATOM	20823	OH2	WAT	3893	-18.372	23.651	43.344	1.00	31.66
ATOM	20824	OH2	WAT	3894	31.162	-51.492	16.861	1.00	31.13
ATOM	20825	OH2	WAT	3895	-16.499	9.900	3.726	1.00	34.65
ATOM	20826	OH2	WAT	3896	4.097	31.182	75.075	1.00	31.65
ATOM	20827	OH2	WAT	3897	2.547	4.874	29.181	1.00	31.86
ATOM	20828	OH2	WAT	3898	18.775	-19.780	-5.586	1.00	40.14
ATOM	20829	OH2	WAT	3899	25.581	-18.670	36.519	1.00	28.00
ATOM	20830	OH2	WAT	3900	-5.538	-11.112	0.952	1.00	31.04
ATOM	20831	OH2	WAT	3901	22.835	-4.612	10.494	1.00	24.12
ATOM	20832	OH2	WAT	3902	12.797	17.517	28.765	1.00	21.18
ATOM	20833	OH2	WAT	3903	4.058	-26.546	4.176	1.00	34.15
ATOM	20834	OH2	WAT	3904	29.116	-1.506	18.412	1.00	35.13
ATOM	20835	OH2	WAT	3905	8.641	-41.868	14.564	1.00	21.18
ATOM	20836	OH2	WAT	3906	17.066	16.197	14.566	1.00	21.39
ATOM	20837	OH2	WAT	3907	24.968	-0.811	-10.057	1.00	14.97
ATOM	20838	OH2	WAT	3908	-5.456	13.973	18.883	1.00	11.97
ATOM	20839	OH2	WAT	3909	-35.150	-14.133	11.997	1.00	31.50
ATOM	20840	OH2	WAT	3910	19.863	13.952	46.804	1.00	31.52
ATOM	20841	OH2	WAT	3911	11.750	-12.899	10.707	1.00	29.39
ATOM	20842	OH2	WAT	3912	18.553	26.176	11.873	1.00	24.30
ATOM	20843	OH2	WAT	3913	11.461	-44.895	14.809	1.00	34.66
ATOM	20844	OH2	WAT	3914	49.146	8.099	27.030	1.00	31.36
ATOM	20845	OH2	WAT	3915	-6.963	47.797	20.348	1.00	31.11
ATOM	20846	OH2	WAT	3916	-11.454	17.892	8.038	1.00	34.08
ATOM	20847	OH2	WAT	3917	-15.154	-2.083	-15.847	1.00	11.83
ATOM	20848	OH2	WAT	3918	-20.062	14.707	51.081	1.00	34.11
ATOM	20849	OH2	WAT	3919	-13.182	22.840	-8.859	1.00	31.06
ATOM	20850	OH2	WAT	3920	-10.118	20.133	-11.034	1.00	14.60
ATOM	20851	OH2	WAT	3921	29.187	32.197	22.119	1.00	29.21
ATOM	20852	OH2	WAT	3922	11.196	41.496	60.136	1.00	21.47
ATOM	20853	OH2	WAT	3923	11.917	-45.119	14.884	1.00	11.20
ATOM	20854	OH2	WAT	3924	11.488	61.880	31.811	1.00	18.52
ATOM	20855	OH2	WAT	3925	12.958	6.977	47.699	1.00	21.12
ATOM	20856	OH2	WAT	3926	-23.821	-11.864	27.191	1.00	31.17
ATOM	20857	OH2	WAT	3927	12.860	17.133	48.351	1.00	11.44
ATOM	20858	OH2	WAT	3928	-1.426	25.964	11.414	1.00	23.69
ATOM	20859	OH2	WAT	3929	-13.119	16.882	14.184	1.00	14.11
ATOM	20860	OH2	WAT	3930	43.195	-17.117	8.451	1.00	11.25
ATOM	20861	OH2	WAT	3931	12.963	6.991	18.982	1.00	34.20
ATOM	20862	OH2	WAT	3932	-9.032	11.177	27.073	1.00	34.25
ATOM	20863	OH2	WAT	3933	31.057	21.999	11.621	1.00	24.72
ATOM	20864	OH2	WAT	3934	38.507	-21.072	-10.854	1.00	21.61
ATOM	20865	OH2	WAT	3935	-23.025	12.138	-10.116	1.00	28.93
ATOM	20866	OH2	WAT	3936	32.699	-11.887	36.490	1.00	11.74
ATOM	20867	OH2	WAT	3937	17.175	-3.478	41.410	1.00	31.51
ATOM	20868	OH2	WAT	3938	7.861	15.365	34.973	1.00	44.23
ATOM	20869	OH2	WAT	3939	11.175	25.692	14.511	1.00	31.64
ATOM	20870	OH2	WAT	3940	-3.313	-38.236	19.667	1.00	34.46
ATOM	20871	OH2	WAT	3941	-7.692	-42.437	19.109	1.00	43.80
ATOM	20872	OH2	WAT	3942	-13.863	31.441	25.662	1.00	11.38
ATOM	20873	OH2	WAT	3943	-12.474	-21.794	42.395	1.00	14.53
ATOM	20874	OH2	WAT	3944	-3.638	41.102	62.635	1.00	11.56
ATOM	20875	OH2	WAT	3945	-18.127	35.816	15.937	1.00	11.59
ATOM	20876	OH2	WAT	3946	-15.965	-18.554	18.618	1.00	31.77
ATOM	20877	OH2	WAT	3947	34.669	-34.614	67.209	1.00	11.74
ATOM	20878	OH2	WAT	3948	54.577	15.128	92.645	1.00	34.53
ATOM	20879	OH2	WAT	3949	0.887	-14.123	4.173	1.00	18.74
ATOM	20880	OH2	WAT	3950	-15.047	35.053	18.139	1.00	11.90
ATOM	20881	OH2	WAT	3951	15.818	2.196	9.301	1.00	11.29
ATOM	20882	OH2	WAT	3952	-23.641	7.930	-14.399	1.00	11.36
ATOM	20883	OH2	WAT	3953	1.132	-12.635	37.805	1.00	19.71
ATOM	20884	OH2	WAT	3954	-24.033	-11.065	68.449	1.00	36.64
ATOM	20885	OH2	WAT	3955	31.947	-13.774	44.112	1.00	17.25
ATOM	20886	OH2	WAT	3956	27.559	-23.512	73.698	1.00	34.23
ATOM	20887	OH2	WAT	3957	40.516	19.972	40.333	1.00	17.16
ATOM	20888	OH2	WAT	3958	-21.789	-38.679	25.692	1.00	11.71
ATOM	20889	OH2	WAT	3959	27.139	35.825	22.371	1.00	31.71
ATOM	20890	OH2	WAT	3960	6.627	13.854	67.381	1.00	33.43
ATOM	20891	OH2	WAT	3961	-7.495	30.319	65.877	1.00	17.84
ATOM	20892	OH2	WAT	3962	39.945	-12.981	59.062	1.00	31.69
ATOM	20893	OH2	WAT	3963	10.451	0.990	11.902	1.00	42.44
ATOM	20894	OH2	WAT	3964	-19.187	17.176	7.811	1.00	31.63
ATOM	20895	OH2	WAT	3965	11.177	6.361	57.163	1.00	34.34

ATOM	20896	CH2	WAT	3966	-21.554	13.101	7.475	1.00	24.12
ATOM	20897	CH2	WAT	3967	8.150	-27.034	50.434	1.00	39.84
ATOM	20898	CH2	WAT	3968	-18.831	9.121	46.959	1.00	30.55
ATOM	20899	CH2	WAT	3969	50.680	1.961	15.800	1.00	35.02
ATOM	20900	CH2	WAT	3970	35.217	-49.128	25.289	1.00	34.87
ATOM	20901	CH2	WAT	3971	-39.398	-8.042	11.100	1.00	31.40
ATOM	20902	CH2	WAT	3972	19.447	17.441	13.441	1.00	23.33
ATOM	20903	CH2	WAT	3973	-13.103	5.510	51.486	1.00	32.30
ATOM	20904	CH2	WAT	3974	35.512	-38.910	31.787	1.00	29.21
ATOM	20905	CH2	WAT	3975	42.490	-6.432	48.177	1.00	37.33
ATOM	20906	CH2	WAT	3976	55.963	7.452	19.213	1.00	41.37
ATOM	20907	CH2	WAT	3977	-23.545	12.446	-12.711	1.00	36.65
ATOM	20908	CH2	WAT	3978	29.194	-25.699	41.413	1.00	28.27
ATOM	20909	CH2	WAT	3979	24.546	4.768	33.624	1.00	34.00
ATOM	20910	CH2	WAT	3980	11.846	-56.838	27.547	1.00	36.56
ATOM	20911	CH2	WAT	3981	-11.970	-28.236	68.161	1.00	31.56
ATOM	20912	CH2	WAT	3982	34.680	0.521	51.110	1.00	26.18
ATOM	20913	CH2	WAT	3983	24.960	-27.838	15.617	1.00	35.13
ATOM	20914	CH2	WAT	3984	12.178	-47.174	31.370	1.00	34.11
ATOM	20915	CH2	WAT	3985	-12.338	-29.308	25.980	1.00	30.06
ATOM	20916	CH2	WAT	3986	-51.134	-4.738	26.419	1.00	30.64
ATOM	20917	CH2	WAT	3987	31.112	25.190	72.513	1.00	29.87
ATOM	20918	CH2	WAT	3988	-3.733	-17.085	4.411	1.00	32.12
ATOM	20919	CH2	WAT	3989	14.878	-37.418	62.713	1.00	36.51
ATOM	20920	CH2	WAT	3990	-0.318	-32.480	35.647	1.00	31.85
ATOM	20921	CH2	WAT	3991	26.981	6.700	24.617	1.00	38.05
ATOM	20922	CH2	WAT	3992	9.411	-16.468	4.619	1.00	31.20
ATOM	20923	CH2	WAT	3993	21.111	35.119	59.813	1.00	30.73
ATOM	20924	CH2	WAT	3994	-29.514	4.910	48.463	1.00	38.77
ATOM	20925	CH2	WAT	3995	-10.016	20.469	3.617	1.00	37.33
ATOM	20926	CH2	WAT	3996	13.415	-13.216	30.415	1.00	37.55
ATOM	20927	CH2	WAT	3997	-13.648	-30.115	4.610	1.00	37.29
ATOM	20928	CH2	WAT	3998	-1.811	2.914	16.916	1.00	32.81
ATOM	20929	CH2	WAT	3999	-6.112	-20.345	39.114	1.00	36.98
ATOM	20930	CH2	WAT	4000	3.113	16.315	31.913	1.00	40.85
ATOM	20931	CH2	WAT	4001	37.111	-42.818	29.013	1.00	35.13
ATOM	20932	CH2	WAT	4002	1.718	0.511	4.513	1.00	40.93
ATOM	20933	CH2	WAT	4003	7.915	-18.119	-7.211	1.00	41.83
ATOM	20934	CH2	WAT	4004	-2.314	-24.713	41.316	1.00	36.17
ATOM	20935	CH2	WAT	4005	-14.011	-19.714	-0.016	1.00	34.42
ATOM	20936	CH2	WAT	4006	19.012	-17.315	-18.913	1.00	32.80
ATOM	20937	CH2	WAT	4007	10.114	-14.743	-13.213	1.00	39.84
ATOM	20938	CH2	WAT	4008	15.113	15.011	39.714	1.00	30.34
ATOM	20939	CH2	WAT	4009	35.311	-21.314	20.517	1.00	31.18
ATOM	20940	CH2	WAT	4010	22.819	15.819	3.111	1.00	35.03
ATOM	20941	CH2	WAT	4011	-10.543	-44.147	3.012	1.00	38.45
ATOM	20942	CH2	WAT	4012	-16.514	34.561	56.964	1.00	38.81
ATOM	20943	CH2	WAT	4013	-10.146	33.315	63.756	1.00	37.29
ATOM	20944	CH2	WAT	4014	46.842	-9.712	51.011	1.00	37.37
ATOM	20945	CH2	WAT	4015	29.910	7.113	29.514	1.00	33.85
ATOM	20946	CH2	WAT	4016	19.525	-12.811	72.613	1.00	36.63
ATOM	20947	CH2	WAT	4017	13.318	-34.111	37.285	1.00	34.54
ATOM	20948	CH2	WAT	4018	-5.762	-2.117	29.837	1.00	31.23
ATOM	20949	CH2	WAT	4019	1.1376	-38.316	13.118	1.00	31.14
ATOM	20950	CH2	WAT	4020	-7.010	-14.815	72.010	1.00	32.77
ATOM	20951	CH2	WAT	4021	0.212	22.314	-7.049	1.00	32.91
ATOM	20952	CH2	WAT	4022	-3.449	14.512	-24.093	1.00	36.29
ATOM	20953	CH2	WAT	4023	-8.112	3.142	-24.072	1.00	33.84
ATOM	20954	CH2	WAT	4024	13.016	-11.810	8.113	1.00	39.93
ATOM	20955	CH2	WAT	4025	21.013	13.519	13.010	1.00	34.67
ATOM	20956	CH2	WAT	4026	-20.310	-39.819	16.104	1.00	41.85
ATOM	20957	CH2	WAT	4027	16.714	13.316	52.669	1.00	38.73
ATOM	20958	CH2	WAT	4028	35.310	24.916	40.111	1.00	44.71
ATOM	20959	CH2	WAT	4029	57.413	10.118	50.817	1.00	33.75
ATOM	20960	CH2	WAT	4030	1.814	-42.819	39.819	1.00	36.50
ATOM	20961	CH2	WAT	4031	10.813	-9.712	72.511	1.00	38.53
ATOM	20962	CH2	WAT	4032	43.811	-27.114	51.318	1.00	35.47
ATOM	20963	CH2	WAT	4033	18.518	-39.519	17.412	1.00	37.78
ATOM	20964	CH2	WAT	4034	-29.517	-12.716	8.114	1.00	31.96
ATOM	20965	CH2	WAT	4035	2.216	13.017	-20.781	1.00	40.03
ATOM	20966	CH2	WAT	4036	25.913	-20.510	-14.613	1.00	40.18
ATOM	20967	CH2	WAT	4037	1.215	-18.518	69.368	1.00	34.11
ATOM	20968	CH2	WAT	4038	-30.511	-18.817	14.921	1.00	39.61
ATOM	20969	CH2	WAT	4039	1.072	25.410	67.667	1.00	25.96
ATOM	20970	CH2	WAT	4040	4.117	-40.064	35.015	1.00	37.36
ATOM	20971	CH2	WAT	4041	-1.114	-26.403	13.618	1.00	31.93
ATOM	20972	CH2	WAT	4042	4.011	-11.812	11.649	1.00	33.91

ATOM	20973	OH2	WAT	4043	20.672	6.288	43.154	1.00	11.39
ATOM	20974	OH2	WAT	4044	24.230	13.675	24.481	1.00	17.87
ATOM	20975	OH2	WAT	4045	11.491	-12.079	39.730	1.00	16.52
ATOM	20976	OH2	WAT	4046	-2.958	-45.541	12.487	1.00	25.04
ATOM	20977	OH2	WAT	4047	21.124	0.659	54.913	1.00	19.00
ATOM	20978	OH2	WAT	4048	10.876	-15.313	26.740	1.00	17.94
ATOM	20979	OH2	WAT	4049	-7.082	3.997	47.118	1.00	22.59
ATOM	20980	OH2	WAT	4050	-15.067	20.551	-11.225	1.00	23.46
ATOM	20981	OH2	WAT	4051	5.614	-3.781	42.911	1.00	19.68
ATOM	20982	OH2	WAT	4052	2.878	-3.387	14.276	1.00	21.86
ATOM	20983	OH2	WAT	4053	-28.971	0.170	43.415	1.00	25.48
ATOM	20984	OH2	WAT	4054	18.990	13.789	23.082	1.00	34.23
ATOM	20985	OH2	WAT	4055	14.665	15.999	12.872	1.00	22.69
ATOM	20986	OH2	WAT	4056	4.404	-26.590	36.835	1.00	29.51
ATOM	20987	OH2	WAT	4057	16.881	17.468	50.539	1.00	25.65
ATOM	20988	OH2	WAT	4058	7.783	-15.424	22.245	1.00	25.72
ATOM	20989	OH2	WAT	4059	1.944	-8.274	37.874	1.00	24.67
ATOM	20990	OH2	WAT	4060	-0.816	5.377	57.566	1.00	26.92
ATOM	20991	OH2	WAT	4061	11.878	-16.691	28.796	1.00	26.60
ATOM	20992	OH2	WAT	4062	8.677	-5.127	7.987	1.00	23.89
ATOM	20993	OH2	WAT	4063	7.947	4.987	17.425	1.00	29.72
ATOM	20994	OH2	WAT	4064	-7.873	-13.144	78.159	1.00	24.67
ATOM	20995	OH2	WAT	4065	19.946	-13.577	22.471	1.00	21.68
ATOM	20996	OH2	WAT	4066	26.773	-23.577	42.110	1.00	30.96
ATOM	20997	OH2	WAT	4067	19.115	-21.417	77.131	1.00	21.96
ATOM	20998	OH2	WAT	4068	-14.111	-21.841	24.666	1.00	22.85
ATOM	20999	OH2	WAT	4069	10.156	-42.741	16.181	1.00	30.39
ATOM	21000	OH2	WAT	4070	9.046	1.194	15.495	1.00	23.39
ATOM	21001	OH2	WAT	4071	15.146	-6.477	42.294	1.00	26.75
ATOM	21002	OH2	WAT	4072	21.877	17.387	28.110	1.00	26.02
ATOM	21003	OH2	WAT	4073	42.073	-29.619	52.935	1.00	30.64
ATOM	21004	OH2	WAT	4074	-5.143	-46.827	9.421	1.00	25.65
ATOM	21005	OH2	WAT	4075	-22.461	-39.337	16.988	1.00	29.68
ATOM	21006	OH2	WAT	4076	12.168	54.164	17.405	1.00	42.52
ATOM	21007	OH2	WAT	4077	14.552	-21.059	-8.137	1.00	25.25
ATOM	21008	OH2	WAT	4078	14.627	-21.293	77.111	1.00	26.15
ATOM	21009	OH2	WAT	4079	38.512	13.799	27.817	1.00	22.17
ATOM	21010	OH2	WAT	4080	6.634	-11.234	41.600	1.00	27.51
ATOM	21011	OH2	WAT	4081	19.800	4.001	-7.945	1.00	21.84
ATOM	21012	OH2	WAT	4082	-11.712	14.246	-16.297	1.00	17.20
ATOM	21013	OH2	WAT	4083	-1.193	13.793	-13.736	1.00	27.77
ATOM	21014	OH2	WAT	4084	-13.478	31.899	17.898	1.00	25.63
ATOM	21015	OH2	WAT	4085	-26.770	-9.959	27.481	1.00	21.59
ATOM	21016	OH2	WAT	4086	21.413	-27.449	11.008	1.00	46.92
ATOM	21017	OH2	WAT	4087	21.932	-13.353	-18.435	1.00	27.71
ATOM	21018	OH2	WAT	4088	12.148	-6.264	68.048	1.00	23.46
ATOM	21019	OH2	WAT	4089	13.219	-38.603	10.813	1.00	30.40
ATOM	21020	OH2	WAT	4090	21.260	-4.177	23.906	1.00	33.61
ATOM	21021	OH2	WAT	4091	7.573	-54.047	18.534	1.00	26.52
ATOM	21022	OH2	WAT	4092	0.614	21.833	43.718	1.00	25.64
ATOM	21023	OH2	WAT	4093	17.938	-5.933	27.641	1.00	32.64
ATOM	21024	OH2	WAT	4094	21.678	5.075	19.730	1.00	17.05
ATOM	21025	OH2	WAT	4095	28.277	-46.823	12.926	1.00	24.39
ATOM	21026	OH2	WAT	4096	11.827	-13.653	9.137	1.00	25.49
ATOM	21027	OH2	WAT	4097	-13.107	-44.354	8.927	1.00	27.29
ATOM	21028	OH2	WAT	4098	27.647	11.321	9.734	1.00	32.70
ATOM	21029	OH2	WAT	4099	16.259	-43.393	10.111	1.00	26.63
ATOM	21030	OH2	WAT	4100	4.110	-39.224	10.106	1.00	32.32
ATOM	21031	OH2	WAT	4101	23.743	-40.037	37.956	1.00	50.14
ATOM	21032	OH2	WAT	4102	-24.341	-7.153	65.631	1.00	39.58
ATOM	21033	OH2	WAT	4103	-8.619	11.724	-13.101	1.00	25.85
ATOM	21034	OH2	WAT	4104	-9.433	29.111	31.713	1.00	27.15
ATOM	21035	OH2	WAT	4105	32.807	-16.675	32.463	1.00	16.40
ATOM	21036	OH2	WAT	4106	14.313	14.726	6.695	1.00	17.73
ATOM	21037	OH2	WAT	4107	4.164	-18.508	5.863	1.00	18.79
ATOM	21038	OH2	WAT	4108	48.164	-35.415	17.377	1.00	20.69
ATOM	21039	OH2	WAT	4109	-21.463	1.077	-9.752	1.00	13.32
ATOM	21040	OH2	WAT	4110	48.493	-3.644	41.681	1.00	11.74
ATOM	21041	OH2	WAT	4111	18.777	-56.294	21.133	1.00	15.38
ATOM	21042	OH2	WAT	4112	4.876	-34.443	21.112	1.00	30.18
ATOM	21043	OH2	WAT	4113	-3.278	-12.430	3.866	1.00	29.79
ATOM	21044	OH2	WAT	4114	31.599	-3.290	1.444	1.00	31.75
ATOM	21045	OH2	WAT	4115	29.923	26.631	13.933	1.00	33.99
ATOM	21046	OH2	WAT	4116	-24.643	5.487	-7.858	1.00	45.43
ATOM	21047	OH2	WAT	4117	-19.588	-19.270	41.736	1.00	21.93
ATOM	21048	OH2	WAT	4118	3.177	21.092	-3.713	1.00	39.14
ATOM	21049	OH2	WAT	4119	2.115	21.677	-4.193	1.00	45.65

ATOM	21050	OH2	WAT	4120	52.126	-3.822	53.740	1.00	45.42
ATOM	21051	OH2	WAT	4121	46.817	-4.484	-14.025	1.00	46.99
ATOM	21052	OH2	WAT	4122	-12.592	3.190	66.941	1.00	55.76
ATOM	21053	OH2	WAT	4123	3.150	29.034	35.859	1.00	34.34
ATOM	21054	OH2	WAT	4124	0.606	-33.642	55.873	1.00	32.91
ATOM	21055	OH2	WAT	4125	-14.891	36.665	20.896	1.00	37.73
ATOM	21056	OH2	WAT	4126	-25.092	9.956	50.529	1.00	32.01
ATOM	21057	OH2	WAT	4127	24.645	5.578	21.558	1.00	23.84
ATOM	21058	OH2	WAT	4128	14.966	-15.407	27.047	1.00	37.43
ATOM	21059	OH2	WAT	4129	25.211	6.590	59.414	1.00	32.26
ATOM	21060	OH2	WAT	4130	5.921	2.186	48.678	1.00	28.21
ATOM	21061	OH2	WAT	4131	-0.194	-33.527	6.665	1.00	29.78
ATOM	21062	OH2	WAT	4132	-9.038	35.946	43.796	1.00	37.53
ATOM	21063	OH2	WAT	4133	17.435	-31.315	16.469	1.00	31.72
ATOM	21064	OH2	WAT	4134	30.859	5.569	52.711	1.00	23.97
ATOM	21065	OH2	WAT	4135	2.633	-12.556	17.183	1.00	19.93
ATOM	21066	OH2	WAT	4136	19.428	-23.683	47.112	1.00	24.33
ATOM	21067	OH2	WAT	4137	4.178	27.765	15.147	1.00	31.51
ATOM	21068	OH2	WAT	4138	6.178	-15.894	41.477	1.00	29.15
ATOM	21069	OH2	WAT	4139	28.131	-2.532	-40.111	1.00	24.11
ATOM	21070	OH2	WAT	4140	37.831	-34.267	20.174	1.00	16.17
ATOM	21071	OH2	WAT	4141	-15.931	10.709	12.615	1.00	14.44
ATOM	21072	OH2	WAT	4142	14.842	-13.857	17.115	1.00	23.19
ATOM	21073	OH2	WAT	4143	1.144	-15.812	37.773	1.00	15.17
ATOM	21074	OH2	WAT	4144	17.873	-19.129	7.156	1.00	16.63
ATOM	21075	OH2	WAT	4145	9.559	-49.449	29.114	1.00	18.98
ATOM	21076	OH2	WAT	4146	15.189	1.726	40.816	1.00	19.19
ATOM	21077	OH2	WAT	4147	8.127	-4.347	9.940	1.00	31.12
ATOM	21078	OH2	WAT	4148	-5.171	6.847	19.181	1.00	17.12
ATOM	21079	OH2	WAT	4149	28.669	41.103	15.163	1.00	19.63
ATOM	21080	OH2	WAT	4150	23.580	3.660	10.113	1.00	19.46
ATOM	21081	OH2	WAT	4151	13.879	11.858	16.114	1.00	18.14
ATOM	21082	OH2	WAT	4152	3.363	-53.015	26.315	1.00	16.41
ATOM	21083	OH2	WAT	4153	41.742	-31.774	52.912	1.00	19.83
ATOM	21084	OH2	WAT	4154	15.162	21.117	30.911	1.00	13.61
ATOM	21085	OH2	WAT	4155	13.478	-11.052	37.743	1.00	12.63
ATOM	21086	OH2	WAT	4156	4.765	-1.386	40.770	1.00	35.82
ATOM	21087	OH2	WAT	4157	19.123	-19.547	73.113	1.00	17.11
ATOM	21088	OH2	WAT	4158	19.054	-11.112	19.117	1.00	33.75
ATOM	21089	OH2	WAT	4159	-1.163	19.119	20.116	1.00	17.14
ATOM	21090	OH2	WAT	4160	-6.156	-47.114	6.119	1.00	31.11
ATOM	21091	OH2	WAT	4161	19.161	-28.141	34.117	1.00	16.10
ATOM	21092	OH2	WAT	4162	18.175	14.115	19.117	1.00	38.14
ATOM	21093	OH2	WAT	4163	-3.192	-20.117	37.114	1.00	31.16
ATOM	21094	OH2	WAT	4164	18.111	-11.115	54.117	1.00	30.17
ATOM	21095	OH2	WAT	4165	-15.111	31.119	22.114	1.00	31.12
ATOM	21096	OH2	WAT	4166	40.116	-11.115	40.115	1.00	32.11
ATOM	21097	OH2	WAT	4167	47.112	33.110	7.118	1.00	40.11
ATOM	21098	OH2	WAT	4168	-3.112	-33.110	34.114	1.00	17.16
ATOM	21099	OH2	WAT	4169	9.116	20.113	72.110	1.00	35.17
ATOM	21100	OH2	WAT	4170	11.113	-21.117	2.119	1.00	36.12
ATOM	21101	OH2	WAT	4171	-30.111	-6.116	44.113	1.00	34.17
ATOM	21102	OH2	WAT	4172	-5.111	-11.116	53.111	1.00	34.11
ATOM	21103	OH2	WAT	4173	-14.119	-20.113	49.117	1.00	30.11
ATOM	21104	OH2	WAT	4174	-10.113	-11.112	4.111	1.00	11.14
ATOM	21105	OH2	WAT	4175	14.111	-11.115	5.114	1.00	7.111
ATOM	21106	OH2	WAT	4176	15.113	-21.116	0.117	1.00	12.11
ATOM	21107	OH2	WAT	4177	-29.115	-5.115	34.115	1.00	0.11
ATOM	21108	OH2	WAT	4178	10.114	-11.118	-20.113	1.00	5.113
ATOM	21109	OH2	WAT	4179	-6.112	11.116	33.113	1.00	1.11
ATOM	21110	OH2	WAT	4180	-21.112	31.114	63.112	1.00	2.117
ATOM	21111	OH2	WAT	4181	40.110	3.118	23.110	1.00	5.113
ATOM	21112	OH2	WAT	4182	8.110	4.114	41.117	1.00	9.119
ATOM	21113	OH2	WAT	4183	42.114	-19.118	55.116	1.00	7.119
ATOM	21114	OH2	WAT	4184	10.114	21.116	38.117	1.00	9.116
ATOM	21115	OH2	WAT	4185	10.114	-31.113	10.115	1.00	7.118
ATOM	21116	OH2	WAT	4186	-15.114	-9.113	-3.112	1.00	-1.111
ATOM	21117	OH2	WAT	4187	-1.110	11.114	14.119	1.00	10.111
ATOM	21118	OH2	WAT	4188	44.119	1.112	29.116	1.00	8.119
ATOM	21119	OH2	WAT	4189	-6.112	-23.112	46.110	1.00	18.110
ATOM	21120	OH2	WAT	4190	13.115	-5.111	41.112	1.00	15.113
ATOM	21121	OH2	WAT	4191	19.114	31.116	49.114	1.00	15.110
ATOM	21122	OH2	WAT	4192	-36.118	-21.114	23.116	1.00	15.110
ATOM	21123	OH2	WAT	4193	17.111	0.110	12.114	1.00	13.118
ATOM	21124	OH2	WAT	4194	10.117	38.110	23.114	1.00	12.112
ATOM	21125	OH2	WAT	4195	-21.112	3.114	3.113	1.00	11.118
ATOM	21126	OH2	WAT	4196	-11.111	19.119	4.113	1.00	11.113

ATOM	21127	OH2	WAT	4197	-17.403	21.503	-8.388	1.00	32.40
ATOM	21128	OH2	WAT	4198	21.977	9.231	37.108	1.00	32.87
ATOM	21129	OH2	WAT	4199	37.419	17.868	11.884	1.00	46.51
ATOM	21130	OH2	WAT	4200	22.196	9.629	18.773	1.00	31.77
ATOM	21131	OH2	WAT	4201	16.692	-23.373	-5.245	1.00	35.91
ATOM	21132	OH2	WAT	4202	42.777	-33.719	53.939	1.00	31.86
ATOM	21133	OH2	WAT	4203	1.354	-2.233	14.711	1.00	31.10
ATOM	21134	OH2	WAT	4204	-26.952	-3.544	38.440	1.00	34.73
ATOM	21135	OH2	WAT	4205	29.239	-5.609	38.642	1.00	29.97
ATOM	21136	OH2	WAT	4206	43.138	0.368	25.059	1.00	31.24
ATOM	21137	OH2	WAT	4207	52.415	-7.783	51.941	1.00	39.80
ATOM	21138	OH2	WAT	4208	-2.220	0.196	40.311	1.00	41.13
ATOM	21139	OH2	WAT	4209	9.166	-36.364	8.219	1.00	30.28
ATOM	21140	OH2	WAT	4210	37.549	-23.883	19.085	1.00	35.85
ATOM	21141	OH2	WAT	4211	40.766	-43.433	18.138	1.00	35.18
ATOM	21142	OH2	WAT	4212	41.259	-39.416	17.710	1.00	35.03
ATOM	21143	OH2	WAT	4213	5.966	-16.744	26.445	1.00	23.99
ATOM	21144	OH2	WAT	4214	-0.104	24.426	38.719	1.00	31.34
ATOM	21145	H2	WAT	4215	-31.816	-5.411	6.126	1.00	46.67
ATOM	21146	H2	WAT	4216	1.602	-25.153	41.531	1.00	31.87
ATOM	21147	H2	WAT	4217	1.244	8.438	33.131	1.00	31.61
ATOM	21148	H2	WAT	4218	8.138	14.433	-11.533	1.00	31.49
ATOM	21149	H2	WAT	4219	-5.001	39.848	64.146	1.00	36.17
ATOM	21150	OH2	WAT	4220	30.649	5.426	54.006	1.00	33.56
ATOM	21151	OH2	WAT	4221	-25.160	4.411	48.948	1.00	31.32
ATOM	21152	H2	WAT	4222	4.603	-15.436	39.936	1.00	23.11
ATOM	21153	H2	WAT	4223	-19.135	22.017	52.865	1.00	36.91
ATOM	21154	OH2	WAT	4224	-1.235	27.373	40.446	1.00	31.03
ATOM	21155	H2	WAT	4225	-4.337	-6.356	44.639	1.00	31.56
ATOM	21156	H2	WAT	4226	-33.341	-40.317	35.117	1.00	36.02
ATOM	21157	H2	WAT	4227	-29.811	-16.219	55.473	1.00	43.39
ATOM	21158	OH2	WAT	4228	1.206	13.413	-12.894	1.00	15.50
ATOM	21159	OH2	WAT	4229	31.515	42.388	14.767	1.00	36.19
ATOM	21160	OH2	WAT	4230	-32.435	-40.146	8.039	1.00	31.85
ATOM	21161	OH2	WAT	4231	4.844	-8.611	38.037	1.00	16.97
ATOM	21162	OH2	WAT	4232	41.136	-12.873	43.000	1.00	34.40
ATOM	21163	OH2	WAT	4233	22.346	33.851	68.514	1.00	47.30
ATOM	21164	OH2	WAT	4234	6.737	5.031	40.043	1.00	41.41
ATOM	21165	OH2	WAT	4235	5.196	-13.093	37.177	1.00	33.25
ATOM	21166	OH2	WAT	4236	5.818	-1.000	34.657	1.00	40.01
ATOM	21167	OH2	WAT	4237	-5.652	-17.045	3.161	1.00	33.26
ATOM	21168	OH2	WAT	4238	-22.625	5.122	41.831	1.00	32.25
ATOM	21169	OH2	WAT	4239	-13.321	-28.114	62.371	1.00	31.35
ATOM	21170	OH2	WAT	4240	-22.968	-6.416	35.146	1.00	32.54
ATOM	21171	OH2	WAT	4241	-27.579	-29.214	23.224	1.00	38.40
ATOM	21172	OH2	WAT	4242	-17.589	-1.279	71.414	1.00	49.90
ATOM	21173	OH2	WAT	4243	-11.591	-26.894	3.934	1.00	30.62
ATOM	21174	OH2	WAT	4244	11.074	-44.145	23.557	1.00	40.76
ATOM	21175	OH2	WAT	4245	-4.840	12.632	24.363	1.00	35.77
ATOM	21176	OH2	WAT	4246	47.599	-6.470	55.515	1.00	36.89
ATOM	21177	OH2	WAT	4247	-28.043	2.319	-0.535	1.00	32.68
ATOM	21178	OH2	WAT	4248	39.767	-37.649	16.094	1.00	42.67
ATOM	21179	OH2	WAT	4249	22.684	29.319	5.443	1.00	39.59
ATOM	21180	OH2	WAT	4250	-8.757	40.346	1.094	1.00	32.81
ATOM	21181	OH2	WAT	4251	40.067	-45.513	29.265	1.00	35.71
ATOM	21182	OH2	WAT	4252	24.927	1.110	43.411	1.00	31.92
ATOM	21183	OH2	WAT	4253	17.154	-13.540	31.677	1.00	37.95
ATOM	21184	OH2	WAT	4254	38.172	16.641	33.759	1.00	36.90
ATOM	21185	OH2	WAT	4255	-23.882	11.310	4.625	1.00	35.75
ATOM	21186	OH2	WAT	4256	14.484	23.154	17.143	1.00	31.63
ATOM	21187	OH2	WAT	4257	14.139	14.111	-2.663	1.00	31.35
ATOM	21188	OH2	WAT	4258	3.633	-26.814	58.153	1.00	41.01
ATOM	21189	OH2	WAT	4259	13.646	-9.116	-24.463	1.00	33.12
ATOM	21190	OH2	WAT	4260	40.173	-5.449	1.133	1.00	31.30
ATOM	21191	OH2	WAT	4261	27.184	-0.913	15.164	1.00	30.38
ATOM	21192	OH2	WAT	4262	1.457	1.118	56.492	1.00	41.99
ATOM	21193	OH2	WAT	4263	-7.101	28.368	40.512	1.00	31.74
ATOM	21194	OH2	WAT	4264	6.424	28.970	13.284	1.00	35.75
ATOM	21195	OH2	WAT	4265	18.124	7.964	59.997	1.00	37.00
ATOM	21196	OH2	WAT	4266	11.371	-50.940	21.231	1.00	41.36
ATOM	21197	OH2	WAT	4267	6.420	1.496	67.198	1.00	37.21
ATOM	21198	OH2	WAT	4268	4.155	15.109	20.451	1.00	30.58
ATOM	21199	OH2	WAT	4269	18.153	-3.014	-4.695	1.00	41.73
ATOM	21200	OH2	WAT	4270	11.449	-23.414	33.765	1.00	31.88
ATOM	21201	OH2	WAT	4271	41.163	51.738	4.914	1.00	37.90
ATOM	21202	OH2	WAT	4272	11.298	46.346	14.161	1.00	33.61
ATOM	21203	OH2	WAT	4273	11.111	14.110	16.164	1.00	32.78

ATOM	21204	OH2	WAT	4274	-6.998	36.928	26.870	1.00	43.35
ATOM	21205	OH2	WAT	4275	46.918	7.591	34.599	1.00	24.81
ATOM	21206	OH2	WAT	4276	50.683	-8.035	-5.708	1.00	40.55
ATOM	21207	OH2	WAT	4277	15.452	-39.792	61.673	1.00	34.30
ATOM	21208	OH2	WAT	4278	7.397	-30.631	39.483	1.00	33.65
ATOM	21209	OH2	WAT	4279	13.836	-11.131	13.199	1.00	41.50
ATOM	21210	OH2	WAT	4280	-11.160	20.631	-8.437	1.00	32.16
ATOM	21211	OH2	WAT	4281	45.783	-19.678	50.399	1.00	35.75
ATOM	21212	OH2	WAT	4282	47.135	27.161	14.453	1.00	38.21
ATOM	21213	OH2	WAT	4283	8.531	-12.535	69.846	1.00	42.83
ATOM	21214	OH2	WAT	4284	38.130	21.846	69.135	1.00	34.37
ATOM	21215	OH2	WAT	4285	49.714	-15.553	1.733	1.00	31.07
ATOM	21216	OH2	WAT	4286	8.136	36.082	54.659	1.00	23.72
ATOM	21217	OH2	WAT	4287	23.244	32.118	59.689	1.00	32.29
ATOM	21218	OH2	WAT	4288	17.581	21.484	39.683	1.00	43.73
ATOM	21219	OH2	WAT	4289	19.334	9.361	27.367	1.00	34.18
ATOM	21220	OH2	WAT	4290	-32.133	-19.182	54.331	1.00	42.08
ATOM	21221	OH2	WAT	4291	36.134	-48.133	13.344	1.00	27.99
ATOM	21222	OH2	WAT	4292	53.638	1.669	45.991	1.00	29.32
ATOM	21223	OH2	WAT	4293	-18.335	-1.334	11.135	1.00	34.13
ATOM	21224	OH2	WAT	4294	29.631	34.136	69.135	1.00	41.73
ATOM	21225	OH2	WAT	4295	-17.331	14.135	11.135	1.00	29.90
ATOM	21226	OH2	WAT	4296	-0.331	23.136	11.135	1.00	31.11
ATOM	21227	OH2	WAT	4297	-11.137	0.437	-18.135	1.00	40.13
ATOM	21228	OH2	WAT	4298	31.137	-20.135	-17.135	1.00	37.42
ATOM	21229	OH2	WAT	4299	26.131	-17.135	-14.134	1.00	31.68
ATOM	21230	OH2	WAT	4300	20.136	8.135	-8.133	1.00	38.06
ATOM	21231	OH2	WAT	4301	31.139	-46.137	3.133	1.00	36.13
ATOM	21232	OH2	WAT	4302	-10.132	-1.134	1.134	1.00	30.13
ATOM	21233	OH2	WAT	4303	-0.134	13.137	-13.135	1.00	19.13
ATOM	21234	OH2	WAT	4304	10.132	-21.130	-21.135	1.00	32.13
ATOM	21235	OH2	WAT	4305	-15.131	14.133	49.135	1.00	41.13
ATOM	21236	OH2	WAT	4306	-5.131	-24.136	3.131	1.00	37.13
ATOM	21237	OH2	WAT	4307	-12.132	1.134	5.133	1.00	44.13
ATOM	21238	OH2	WAT	4308	-11.132	-2.136	1.133	1.00	36.13
ATOM	21239	OH2	WAT	4309	-1.136	10.134	8.131	1.00	13.13
ATOM	21240	OH2	WAT	4310	11.132	-8.131	-13.133	1.00	37.13
ATOM	21241	OH2	WAT	4311	38.134	-3.132	1.133	1.00	36.13
ATOM	21242	OH2	WAT	4312	46.131	-21.132	2.133	1.00	16.13
ATOM	21243	OH2	WAT	4313	19.131	-44.133	3.131	1.00	37.13
ATOM	21244	OH2	WAT	4314	45.137	-1.133	8.131	1.00	37.13
ATOM	21245	OH2	WAT	4315	3.134	-16.131	21.135	1.00	46.13
ATOM	21246	OH2	WAT	4316	1.132	1.136	13.139	1.00	36.13
ATOM	21247	OH2	WAT	4317	12.139	19.139	2.139	1.00	41.13
ATOM	21248	OH2	WAT	4318	-18.135	-3.139	1.132	1.00	19.13
ATOM	21249	OH2	WAT	4319	32.135	-54.138	1.133	1.00	30.13
ATOM	21250	OH2	WAT	4320	17.130	-27.131	5.132	1.00	38.13
ATOM	21251	OH2	WAT	4321	56.132	1.133	51.131	1.00	44.13
ATOM	21252	OH2	WAT	4322	-21.131	-37.135	1.133	1.00	36.13
ATOM	21253	OH2	WAT	4323	36.131	-1.136	51.132	1.00	36.13
ATOM	21254	OH2	WAT	4324	13.130	6.131	-21.131	1.00	38.13
ATOM	21255	OH2	WAT	4325	-30.132	-37.138	1.131	1.00	47.13
ATOM	21256	OH2	WAT	4326	-31.130	-31.136	1.135	1.00	43.13
ATOM	21257	OH2	WAT	4327	42.139	27.133	53.135	1.00	44.13
ATOM	21258	OH2	WAT	4328	45.135	11.131	29.134	1.00	35.13
ATOM	21259	OH2	WAT	4329	25.136	-51.138	21.130	1.00	34.13
ATOM	21260	OH2	WAT	4330	37.130	-20.139	1.136	1.00	34.13
ATOM	21261	OH2	WAT	4331	22.134	3.138	-13.136	1.00	33.13
ATOM	21262	OH2	WAT	4332	-22.137	14.141	1.133	1.00	36.13
ATOM	21263	OH2	WAT	4333	-10.139	-27.143	1.136	1.00	26.13
ATOM	21264	OH2	WAT	4334	-9.132	-49.136	1.138	1.00	45.13
ATOM	21265	OH2	WAT	4335	-10.138	-43.136	1.137	1.00	34.13
ATOM	21266	OH2	WAT	4336	-19.136	21.137	-1.134	1.00	46.13
ATOM	21267	OH2	WAT	4337	1.131	-6.135	1.133	1.00	36.13
ATOM	21268	OH2	WAT	4338	42.133	18.139	1.139	1.00	34.13
ATOM	21269	OH2	WAT	4339	-0.133	-4.135	1.134	1.00	32.13
ATOM	21270	OH2	WAT	4340	6.133	20.135	1.139	1.00	33.13
ATOM	21271	OH2	WAT	4341	15.134	24.132	1.134	1.00	46.13
ATOM	21272	OH2	WAT	4342	11.139	39.134	1.132	1.00	38.13
ATOM	21273	OH2	WAT	4343	10.131	-39.137	1.135	1.00	44.13
ATOM	21274	OH2	WAT	4344	35.130	-10.133	1.130	1.00	46.13
ATOM	21275	OH2	WAT	4345	3.133	-41.137	1.132	1.00	42.13
ATOM	21276	OH2	WAT	4346	-10.133	42.134	43.134	1.00	46.13
ATOM	21277	OH2	WAT	4347	16.133	51.130	19.133	1.00	37.13
ATOM	21278	OH2	WAT	4348	3.136	14.132	36.130	1.00	38.13
ATOM	21279	OH2	WAT	4349	46.136	37.133	2.132	1.00	37.13
ATOM	21280	OH2	WAT	4350	11.135	42.136	32.137	1.00	35.13

ATOM	21221	OH2	WAT	4351	-17.122	13.946	41.412	1.00	37.13
ATOM	21222	OH2	WAT	4352	-29.129	-17.466	5.755	1.00	37.27
ATOM	21223	OH2	WAT	4353	31.454	-25.540	69.931	1.00	28.84
ATOM	21224	OH2	WAT	4354	29.443	-7.929	-21.949	1.00	31.36
ATOM	21225	OH2	WAT	4355	-16.351	12.502	47.111	1.00	30.21
ATOM	21226	OH2	WAT	4356	12.706	-13.430	21.716	1.00	35.32
ATOM	21227	OH2	WAT	4357	7.648	-13.329	-10.841	1.00	23.39
ATOM	21228	OH2	WAT	4358	44.822	15.736	67.034	1.00	35.34
ATOM	21229	OH2	WAT	4359	-12.811	23.838	12.610	1.00	35.35
ATOM	21230	OH2	WAT	4360	5.058	11.876	-23.716	1.00	41.15
ATOM	21231	OH2	WAT	4361	-14.121	-31.125	22.843	1.00	24.72
ATOM	21232	OH2	WAT	4362	-5.164	-44.318	25.527	1.00	39.16
ATOM	21233	OH2	WAT	4363	30.700	-35.265	45.218	1.00	38.38
ATOM	21234	OH2	WAT	4364	-28.143	-13.634	45.436	1.00	34.16
ATOM	21235	OH2	WAT	4365	36.395	-43.668	27.337	1.00	32.81
ATOM	21236	OH2	WAT	4366	45.633	-16.075	8.631	1.00	27.97
ATOM	21237	OH2	WAT	4367	5.151	1.005	57.334	1.00	37.10
ATOM	21238	OH2	WAT	4368	4.131	32.437	73.238	1.00	34.45
ATOM	21239	OH2	WAT	4369	-16.527	-5.430	-13.436	1.00	39.46
ATOM	21240	OH2	WAT	4370	44.053	-12.975	41.234	1.00	41.84
ATOM	21241	OH2	WAT	4371	-11.621	23.638	12.610	1.00	41.84
ATOM	21242	OH2	WAT	4372	45.641	14.763	27.236	1.00	45.00
ATOM	21243	OH2	WAT	4373	10.032	23.817	73.236	1.00	37.30
ATOM	21244	OH2	WAT	4374	1.040	49.330	5.834	1.00	46.34
ATOM	21245	OH2	WAT	4375	16.128	1.466	-24.343	1.00	39.48
ATOM	21246	OH2	WAT	4376	-10.317	-39.307	26.134	1.00	23.48
ATOM	21247	OH2	WAT	4377	-13.189	-24.161	69.335	1.00	42.50
ATOM	21248	OH2	WAT	4378	17.311	-10.633	35.232	1.00	39.30
ATOM	21249	OH2	WAT	4379	9.333	-13.262	-3.136	1.00	33.81
ATOM	21250	OH2	WAT	4380	-23.133	-8.834	34.130	1.00	39.72
ATOM	21251	OH2	WAT	4381	52.131	26.747	26.709	1.00	11.21
ATOM	21252	OH2	WAT	4382	1.335	-6.960	58.231	1.00	33.75
ATOM	21253	OH2	WAT	4383	-31.130	-6.570	19.135	1.00	33.36
ATOM	21254	OH2	WAT	4384	37.317	1.006	69.135	1.00	41.43
ATOM	21255	OH2	WAT	4385	-4.333	-13.036	1.131	1.00	37.16
ATOM	21256	OH2	WAT	4386	4.017	-3.919	18.234	1.00	42.36
ATOM	21257	OH2	WAT	4387	-21.141	-1.984	2.137	1.00	33.38
ATOM	21258	OH2	WAT	4388	-22.317	1.730	-1.139	1.00	44.33
ATOM	21259	OH2	WAT	4389	38.933	-41.394	21.353	1.00	26.44
ATOM	21260	OH2	WAT	4390	35.457	-6.585	2.136	1.00	41.41
ATOM	21261	OH2	WAT	4391	-28.515	-11.315	41.337	1.00	44.39
ATOM	21262	OH2	WAT	4392	31.162	10.941	61.136	1.00	33.31
ATOM	21263	OH2	WAT	4393	-15.197	1.325	2.136	1.00	39.34
ATOM	21264	OH2	WAT	4394	-15.450	-26.101	2.134	1.00	25.37
ATOM	21265	OH2	WAT	4395	2.390	13.780	-4.131	1.00	34.76
ATOM	21266	OH2	WAT	4396	43.487	-21.747	5.138	1.00	35.57
ATOM	21267	OH2	WAT	4397	48.629	36.556	21.132	1.00	41.39
ATOM	21268	OH2	WAT	4398	11.100	12.356	40.131	1.00	41.21
ATOM	21269	OH2	WAT	4399	4.507	-12.245	-1.132	1.00	33.12
ATOM	21270	OH2	WAT	4400	-21.080	3.572	1.821	1.00	33.35
ATOM	21271	OH2	WAT	4401	-1.672	3.984	3.138	1.00	33.93
ATOM	21272	OH2	WAT	4402	-20.533	13.697	4.137	1.00	34.01
ATOM	21273	OH2	WAT	4403	39.672	-14.613	5.137	1.00	31.42
ATOM	21274	OH2	WAT	4404	29.739	12.185	1.136	1.00	44.25
ATOM	21275	OH2	WAT	4405	35.880	-22.641	1.130	1.00	31.52
ATOM	21276	OH2	WAT	4406	-35.845	-12.885	2.130	1.00	34.99
ATOM	21277	OH2	WAT	4407	15.313	26.997	1.174	1.00	31.51
ATOM	21278	OH2	WAT	4408	6.333	17.040	1.128	1.00	41.93
ATOM	21279	OH2	WAT	4409	-10.934	16.710	1.139	1.00	31.53
ATOM	21280	OH2	WAT	4410	55.563	6.131	1.131	1.00	45.01
ATOM	21281	OH2	WAT	4411	27.243	-6.852	1.133	1.00	31.63
ATOM	21282	OH2	WAT	4412	11.134	-10.170	1.130	1.00	31.34
ATOM	21283	OH2	WAT	4413	1.133	9.827	4.135	1.00	48.03
ATOM	21284	OH2	WAT	4414	1.136	-4.001	3.176	1.00	38.03
ATOM	21285	OH2	WAT	4415	-1.135	6.138	1.132	1.00	31.63
ATOM	21286	OH2	WAT	4416	1.131	19.407	1.179	1.00	48.03
ATOM	21287	OH2	WAT	4417	19.137	7.036	-1.133	1.00	41.73
ATOM	21288	OH2	WAT	4418	27.104	25.535	15.468	1.00	36.75
ATOM	21289	OH2	WAT	4419	6.892	-32.295	41.176	1.00	41.13
ATOM	21290	OH2	WAT	4420	17.607	-1.474	3.133	1.00	31.61
ATOM	21291	OH2	WAT	4421	1.130	29.267	14.153	1.00	34.39
ATOM	21292	OH2	WAT	4422	6.724	-43.951	10.334	1.00	28.84
ATOM	21293	OH2	WAT	4423	-16.207	33.901	15.434	1.00	40.33
ATOM	21294	OH2	WAT	4424	1.133	13.078	6.744	1.00	31.63
ATOM	21295	OH2	WAT	4425	-1.134	9.179	14.473	1.00	38.76
ATOM	21296	OH2	WAT	4426	5.136	31.015	13.016	1.00	33.37
ATOM	21297	OH2	WAT	4427	1.136	-33.464	-19.743	1.00	41.13

ATCM	21358	OH2	WAT	4428	29.624	26.370	37.226	1.00	43.83
ATCM	21359	OH2	WAT	4429	17.314	-33.128	69.819	1.00	36.98
ATCM	21360	OH2	WAT	4430	10.556	7.415	17.566	1.00	46.82
ATCM	21361	OH2	WAT	4431	8.523	41.533	58.843	1.00	39.73
ATCM	21362	OH2	WAT	4432	33.163	23.263	31.343	1.00	28.81
ATCM	21363	OH2	WAT	4433	15.155	-18.491	-17.040	1.00	47.32
ATCM	21364	OH2	WAT	4434	-22.436	2.034	56.535	1.00	34.09
ATCM	21365	OH2	WAT	4435	19.214	12.145	-11.455	1.00	26.87
ATCM	21366	OH2	WAT	4436	27.167	-37.740	67.562	1.00	21.45
ATCM	21367	OH2	WAT	4437	-26.901	-11.223	12.183	1.00	47.65
ATCM	21368	OH2	WAT	4438	19.824	12.470	67.516	1.00	44.37
ATCM	21369	OH2	WAT	4439	-11.825	46.553	27.756	1.00	41.21
ATCM	21370	OH2	WAT	4440	-18.854	1.585	28.416	1.00	52.42
ATCM	21371	OH2	WAT	4441	17.115	0.453	59.867	1.00	40.87
ATCM	21372	OH2	WAT	4442	46.616	-22.499	-3.435	1.00	40.16
ATCM	21373	OH2	WAT	4443	14.381	25.984	34.741	1.00	37.11
ATCM	21374	OH2	WAT	4444	-11.725	-17.921	17.640	1.00	27.78
ATCM	21375	OH2	WAT	4445	-34.361	-22.157	26.223	1.00	41.21
ATCM	21376	OH2	WAT	4446	34.684	27.141	3.311	1.00	27.13
ATCM	21377	OH2	WAT	4447	15.854	6.315	67.214	1.00	28.86
ATCM	21378	OH2	WAT	4448	19.834	21.333	71.338	1.00	44.36
ATCM	21379	OH2	WAT	4449	-11.217	27.821	-3.384	1.00	17.11
ATCM	21380	OH2	WAT	4450	22.343	0.986	11.531	1.00	24.11
ATCM	21381	OH2	WAT	4451	-10.153	-27.144	17.110	1.00	26.84
ATCM	21382	OH2	WAT	4452	16.140	25.832	17.274	1.00	36.60
ATCM	21383	OH2	WAT	4453	44.961	30.241	15.396	1.00	37.89
ATCM	21384	OH2	WAT	4454	34.177	-25.715	17.510	1.00	26.14
ATCM	21385	OH2	WAT	4455	-20.114	-24.191	31.569	1.00	34.13
ATCM	21386	OH2	WAT	4456	5.343	-56.124	14.411	1.00	41.00
ATCM	21387	OH2	WAT	4457	2.304	13.167	40.843	1.00	44.85
ATCM	21388	OH2	WAT	4458	17.001	47.861	17.752	1.00	34.80
ATCM	21389	OH2	WAT	4459	-11.227	-11.156	17.163	1.00	41.80
ATCM	21390	OH2	WAT	4460	10.823	0.836	10.265	1.00	44.87
ATCM	21391	OH2	WAT	4461	24.343	1.465	16.139	1.00	16.81
ATCM	21392	OH2	WAT	4462	10.348	4.351	0.491	1.00	31.13
ATCM	21393	OH2	WAT	4463	-1.021	-50.881	16.507	1.00	31.87
ATCM	21394	OH2	WAT	4464	-12.139	1.548	46.838	1.00	16.84
ATCM	21395	OH2	WAT	4465	44.153	1.324	3.619	1.00	36.88
ATCM	21396	OH2	WAT	4466	3.384	-40.877	3.648	1.00	16.84
ATCM	21397	OH2	WAT	4467	-25.910	-21.171	15.116	1.00	40.17
ATCM	21398	OH2	WAT	4468	-22.076	-31.801	33.260	1.00	31.87
ATCM	21399	OH2	WAT	4469	-44.953	4.323	13.134	1.00	45.80
ATCM	21400	OH2	WAT	4470	14.417	1.858	-4.051	1.00	38.13
ATCM	21401	OH2	WAT	4471	4.966	16.343	-15.614	1.00	30.12
ATCM	21402	OH2	WAT	4472	18.323	-22.324	1.908	1.00	36.11
ATCM	21403	OH2	WAT	4473	30.116	-47.799	13.175	1.00	23.84
ATCM	21404	OH2	WAT	4474	-13.343	1.343	32.456	1.00	31.15
ATCM	21405	OH2	WAT	4475	41.851	21.851	10.396	1.00	36.15
ATCM	21406	OH2	WAT	4476	25.141	-23.172	-0.131	1.00	35.65
ATCM	21407	OH2	WAT	4477	-22.838	4.412	-11.442	1.00	31.16
ATCM	21408	OH2	WAT	4478	42.891	-24.831	47.194	1.00	35.61
ATCM	21409	OH2	WAT	4479	-7.137	30.657	8.122	1.00	47.15
ATCM	21410	OH2	WAT	4480	17.354	1.462	37.307	1.00	35.69
ATCM	21411	OH2	WAT	4481	-7.414	21.345	-1.137	1.00	35.43
ATCM	21412	OH2	WAT	4482	49.815	21.151	78.177	1.00	77.61
ATCM	21413	OH2	WAT	4483	-15.431	41.453	7.323	1.00	36.41
ATCM	21414	OH2	WAT	4484	4.348	-22.151	5.117	1.00	36.58
ATCM	21415	OH2	WAT	4485	50.832	-13.164	-0.179	1.00	37.00
ATCM	21416	OH2	WAT	4486	2.908	-13.115	17.666	1.00	12.93
ATCM	21417	OH2	WAT	4487	-8.344	31.117	10.538	1.00	27.93
ATCM	21418	OH2	WAT	4488	0.343	-25.123	10.033	1.00	12.89
ATCM	21419	OH2	WAT	4489	17.382	17.342	9.782	1.00	37.60
ATCM	21420	OH2	WAT	4490	39.386	-43.118	1.446	1.00	17.15
ATCM	21421	OH2	WAT	4491	50.725	-5.220	15.555	1.00	37.84
ATCM	21422	OH2	WAT	4492	-19.356	16.378	18.334	1.00	34.33
ATCM	21423	OH2	WAT	4493	29.777	-43.319	5.325	1.00	36.75
ATCM	21424	OH2	WAT	4494	9.459	-14.305	21.269	1.00	34.98
ATCM	21425	OH2	WAT	4495	-19.163	16.302	49.212	1.00	32.59
ATCM	21426	OH2	WAT	4496	16.395	7.313	-20.690	1.00	36.10
ATCM	21427	OH2	WAT	4497	26.413	-1.303	59.659	1.00	17.06
ATCM	21428	OH2	WAT	4498	-22.773	13.390	1.650	1.00	37.65
ATCM	21429	OH2	WAT	4499	1.717	-30.955	70.167	1.00	34.59
ATCM	21430	OH2	WAT	4500	-16.732	14.103	-6.733	1.00	39.86
ATCM	21431	OH2	WAT	4501	46.171	-10.360	37.2	1.00	32.61
ATCM	21432	OH2	WAT	4502	3.145	16.448	33.272	1.00	30.64
ATCM	21433	OH2	WAT	4503	3.343	-30.786	61.572	1.00	35.43
ATCM	21434	OH2	WAT	4504	52.305	18.726	57.784	1.00	39.33

ATOM	21435	OH2	WAT	4505	31.760	-29.715	16.803	1.00	42.71
ATOM	21436	CH2	WAT	4506	27.158	-0.519	-2.171	1.00	47.55
ATOM	21437	CH2	WAT	4507	16.391	-6.880	13.945	1.00	27.93
ATOM	21438	CH2	WAT	4508	-11.329	8.125	33.144	1.00	35.74
ATOM	21439	CH2	WAT	4509	-34.565	-18.654	21.647	1.00	41.23
ATOM	21440	CH2	WAT	4510	8.119	2.472	45.194	1.00	35.83
ATOM	21441	CH2	WAT	4511	26.135	-26.276	1.441	1.00	47.41
ATOM	21442	CH2	WAT	4512	6.185	13.143	27.334	1.00	38.63
ATOM	21443	CH2	WAT	4513	15.834	-35.849	46.381	1.00	33.03
ATOM	21444	CH2	WAT	4514	52.437	25.745	6.497	1.00	41.04
ATOM	21445	CH2	WAT	4515	5.543	4.118	14.468	1.00	33.27
ATOM	21446	CH2	WAT	4516	53.362	6.451	39.554	1.00	33.27
ATOM	21447	CH2	WAT	4517	1.590	-4.443	-22.357	1.00	33.27
ATOM	21448	CH2	WAT	4518	49.556	-1.588	49.431	1.00	34.60
ATOM	21449	CH2	WAT	4519	-28.945	3.556	61.373	1.00	43.53
ATOM	21450	CH2	WAT	4520	-12.490	17.160	20.670	1.00	39.70
ATOM	21451	CH2	WAT	4521	40.318	-5.631	38.596	1.00	26.43
ATOM	21452	CH2	WAT	4522	10.599	-5.608	63.636	1.00	27.53
ATOM	21453	CH2	WAT	4523	-5.893	-42.115	6.281	1.00	42.03
ATOM	21454	CH2	WAT	4524	30.106	-0.191	45.621	1.00	36.73
ATOM	21455	CH2	WAT	4525	41.777	0.678	-15.445	1.00	37.83
ATOM	21456	CH2	WAT	4526	14.386	15.973	37.328	1.00	26.83
ATOM	21457	CH2	WAT	4527	-22.519	27.143	47.607	1.00	45.34
ATOM	21458	CH2	WAT	4528	-11.576	3.521	-21.126	1.00	26.73
ATOM	21459	CH2	WAT	4529	-2.842	24.671	13.955	1.00	37.04
ATOM	21460	CH2	WAT	4530	36.314	-37.179	7.390	1.00	36.33
ATOM	21461	CH2	WAT	4531	8.937	41.604	63.559	1.00	44.33
ATOM	21462	CH2	WAT	4532	6.771	-15.555	30.910	1.00	35.33
ATOM	21463	CH2	WAT	4533	2.532	-30.744	64.478	1.00	32.13
ATOM	21464	CH2	WAT	4534	14.112	25.572	3.618	1.00	43.13
ATOM	21465	CH2	WAT	4535	29.990	5.778	-14.321	1.00	46.13
ATOM	21466	CH2	WAT	4536	17.429	-9.157	65.687	1.00	44.13
ATOM	21467	CH2	WAT	4537	6.211	-17.310	34.869	1.00	34.13
ATOM	21468	CH2	WAT	4538	11.057	11.113	65.196	1.00	45.13
ATOM	21469	CH2	WAT	4539	-13.638	31.726	31.628	1.00	48.13
ATOM	21470	CH2	WAT	4540	-33.249	-5.613	11.553	1.00	34.13
ATOM	21471	CH2	WAT	4541	-7.066	28.532	37.518	1.00	37.13
ATOM	21472	CH2	WAT	4542	23.003	24.425	17.044	1.00	35.13
ATOM	21473	CH2	WAT	4543	-3.469	27.184	73.860	1.00	38.13
ATOM	21474	CH2	WAT	4544	33.891	29.639	44.547	1.00	41.13
ATOM	21475	CH2	WAT	4545	18.860	-1.019	10.975	1.00	31.13
ATOM	21476	CH2	WAT	4546	-19.212	-0.610	34.779	1.00	23.13
ATOM	21477	CH2	WAT	4547	-16.013	-8.734	-10.667	1.00	40.13
ATOM	21478	CH2	WAT	4548	5.835	-15.345	20.455	1.00	23.13
ATOM	21479	CH2	WAT	4549	42.287	-4.739	41.504	1.00	27.13
ATOM	21480	CH2	WAT	4550	38.305	9.467	71.347	1.00	13.13
ATOM	21481	CH2	WAT	4551	-11.381	38.633	24.989	1.00	13.13
ATOM	21482	CH2	WAT	4552	-22.300	2.492	33.226	1.00	15.13
ATOM	21483	CH2	WAT	4553	6.951	-6.323	41.554	1.00	41.13
ATOM	21484	CH2	WAT	4554	13.682	-8.777	56.797	1.00	15.13
ATOM	21485	CH2	WAT	4555	36.336	-36.163	62.243	1.00	35.13
ATOM	21486	CH2	WAT	4556	94.384	7.723	12.240	1.00	33.13
ATOM	21487	CH2	WAT	4557	-28.577	7.732	49.621	1.00	40.13
ATOM	21488	CH2	WAT	4558	17.615	9.000	18.591	1.00	42.13
ATOM	21489	CH2	WAT	4559	-12.733	20.162	7.607	1.00	32.46
ATOM	21490	CH2	WAT	4560	-32.132	40.353	51.371	1.00	49.13
ATOM	21491	CH2	WAT	4561	17.431	-17.321	20.994	1.00	13.13
ATOM	21492	CH2	WAT	4562	9.509	14.683	21.847	1.00	13.13
ATOM	21493	CH2	WAT	4563	19.197	17.419	37.743	1.00	33.13
ATOM	21494	CH2	WAT	4564	8.296	41.020	10.963	1.00	40.13
ATOM	21495	CH2	WAT	4565	6.824	16.093	-17.793	1.00	45.13
ATOM	21496	CH2	WAT	4566	-31.651	-18.616	6.729	1.00	46.13
ATOM	21497	CH2	WAT	4567	-12.020	46.403	54.682	1.00	43.13
ATOM	21498	CH2	WAT	4568	-15.024	3.147	-20.431	1.00	37.13
ATOM	21499	CH2	WAT	4569	34.171	-25.827	-3.631	1.00	38.13
ATOM	21500	CH2	WAT	4570	11.561	16.348	28.219	1.00	31.13
ATOM	21501	CH2	WAT	4571	14.997	11.367	6.789	1.00	43.13
ATOM	21502	CH2	WAT	4572	-19.414	-31.785	28.616	1.00	33.13
ATOM	21503	CH2	WAT	4573	39.697	11.477	58.321	1.00	33.13
ATOM	21504	CH2	WAT	4574	-26.171	8.367	-3.713	1.00	43.13
ATOM	21505	CH2	WAT	4575	-23.907	-0.346	9.147	1.00	47.86
ATOM	21506	CH2	WAT	4576	36.429	3.370	20.398	1.00	46.95
ATOM	21507	CH2	WAT	4577	9.302	25.334	13.684	1.00	17.87
ATOM	21508	CH2	WAT	4578	27.518	-41.653	12.185	1.00	41.07
ATOM	21509	CH2	WAT	4579	3.163	15.018	25.314	1.00	36.50
ATOM	21510	CH2	WAT	4580	20.941	19.630	29.829	1.00	35.95
ATOM	21511	CH2	WAT	4581	29.489	11.596	-4.410	1.00	31.96

ATCM	21512	OH2	WAT	4582	33.238	34.672	55.740	1.00	46.22
ATCM	21513	OH2	WAT	4583	-30.816	-5.894	17.338	1.00	49.72
ATCM	21514	OH2	WAT	4584	19.340	-28.094	76.769	1.00	34.85
ATCM	21515	OH2	WAT	4585	-2.139	15.453	30.418	1.00	40.59
ATCM	21516	OH2	WAT	4586	4.239	-17.186	76.947	1.00	48.31
ATCM	21517	OH2	WAT	4587	-0.006	-14.038	25.792	1.00	11.21
ATCM	21518	OH2	WAT	4588	29.067	-1.678	2.080	1.00	24.42
ATCM	21519	OH2	WAT	4589	-5.344	11.926	31.843	1.00	29.45
ATCM	21520	OH2	WAT	4590	-3.000	-4.011	-20.507	1.00	33.38
ATCM	21521	OH2	WAT	4591	16.416	-34.157	15.726	1.00	32.70
ATCM	21522	OH2	WAT	4592	42.496	30.507	62.293	1.00	31.93
ATCM	21523	OH2	WAT	4593	45.544	-3.876	0.668	1.00	37.84
ATCM	21524	OH2	WAT	4594	4.284	25.647	44.151	1.00	46.08
ATCM	21525	OH2	WAT	4595	28.936	0.551	-17.641	1.00	49.26
ATCM	21526	OH2	WAT	4596	28.309	-1.764	-7.213	1.00	34.20
ATCM	21527	OH2	WAT	4597	-0.133	-4.683	-4.704	1.00	40.66
ATCM	21528	OH2	WAT	4598	38.002	-19.295	28.777	1.00	37.91
ATCM	21529	OH2	WAT	4599	1.896	-10.498	26.814	1.00	40.28
ATCM	21530	OH2	WAT	4600	10.875	-31.101	46.211	1.00	46.59
ATCM	21531	OH2	WAT	4601	-15.789	11.191	42.541	1.00	40.33
ATCM	21532	OH2	WAT	4602	1.1381	-34.121	45.501	1.00	43.03
ATCM	21533	OH2	WAT	4603	15.546	2.611	48.753	1.00	44.95
ATCM	21534	OH2	WAT	4604	-24.408	-0.962	68.811	1.00	44.14
ATCM	21535	OH2	WAT	4605	27.530	8.531	-3.113	1.00	46.99
ATCM	21536	OH2	WAT	4606	-5.207	-2.671	-4.358	1.00	37.50
ATCM	21537	OH2	WAT	4607	-6.846	-4.949	54.520	1.00	33.19
ATCM	21538	OH2	WAT	4608	-8.773	-28.684	66.448	1.00	41.34
ATCM	21539	OH2	WAT	4609	19.634	-33.293	11.109	1.00	41.89
ATCM	21540	OH2	WAT	4610	25.139	7.699	-4.734	1.00	38.08
ATCM	21541	OH2	WAT	4611	-25.724	-20.312	42.518	1.00	44.59
ATCM	21542	OH2	WAT	4612	30.872	-53.539	20.326	1.00	48.78
ATCM	21543	OH2	WAT	4613	7.035	-17.629	0.602	1.00	47.16
ATCM	21544	OH2	WAT	4614	-20.076	21.041	2.976	1.00	50.56
ATCM	21545	OH2	WAT	4615	49.790	17.372	-5.207	1.00	53.06
ATCM	21546	OH2	WAT	4616	45.033	0.193	-5.524	1.00	36.67
ATCM	21547	OH2	WAT	4617	3.384	12.364	26.877	1.00	47.24
ATCM	21548	OH2	WAT	4618	-23.460	-11.122	39.780	1.00	36.40
ATCM	21549	OH2	WAT	4619	36.510	-18.231	-14.042	1.00	44.41
ATCM	21550	OH2	WAT	4620	27.674	11.270	60.667	1.00	36.19
ATCM	21551	OH2	WAT	4621	-25.671	-31.027	5.734	1.00	35.54
ATCM	21552	OH2	WAT	4622	-33.918	-10.844	11.974	1.00	43.33

END

Table 2. Crystallographic data quality, phasing, refinement and model quality

Space group & Cell parameters (Å)				$P2_1$: $a = 87.8$, $b = 155.4$, $c = 209.9$, $\beta = 99.3^\circ$		$P2_1$: $a = 86.1$, $b = 157.2$, $c = 100.2$, $\beta = 97.4^\circ$	
Data quality							
Data set		Edge	Peak	Remote	Native		
Wavelength (Å)		0.97930	0.97927	0.9393	0.979		
Limiting resolution (Å)		3.1	2.8	2.8	1.8		
R_{free}^a		0.161	0.120	0.131	0.103		
$<1/\sigma>$ (high resolution)		12.8 (2.6)	25.6 (6.0)	13.3 (3.3)	15.9 (2.1)		
Completeness		0.994	0.999	1.0	0.94		
No. unique reflections (multiplicity)		100 734 (3.5)	136 609 (10.6)	136 664 (3.3)	229 086 (4.5)		
Experimental f' (electrons) ^b		9.9, 2.9	-8.6, 5.4	-1.3, 3.2			
Refinement (40 – 1.7 Å)							
R_{obs}^c		0.229 (highest resolution)		0.286			
R_{int}^d		0.263 ()		0.318			
No. reflections: working, test ^e		206 168 / 22 908					
No. atoms (residues)		19 820 (2 640)					
No. waters		1 610					
Model quality							
Ramachandran plot: ϕ residues favourable		90.4					
ϕ unfavourable		None					
R.m.s. deviations:		Bond lengths		0.006			
		Bond angles		1.2			
		Dihedral angles		22.1			

^a $R_{\text{free}} = [\sum w_i |F_o - F_c|^2 / \sum w_i |F_o|^2]$, where $w_i = 1/(\sigma_i^2 |F_o|^2 + \eta_i)$. This is the multiplicity-weighted R_{free} [Diederichs, 1997 #155].^b Estimates from CHOOCH (Evans, 1999).^c $R_{\text{obs}} = 2\|F_o - F_c\| / 2\|F_o\|$. F_o and F_c are observed and calculated structure factor amplitudes.^d R_{int} cross-validation R_{int} calculated using randomly selected test data not used in refinement.